

**LEICA PRIMES V-LUX 3  
FOR DSLR SHOWDOWN**



**DIGITAL RETOUCHING  
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Saturday 7 January 2012

# amateur Photographer

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**ARCHIVING**

## SAFE DIGITAL STORAGE

Future-proof options for  
the digital photographer

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**ON TEST**

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## TESTED: NIKON 1 J1

High-speed and compact **Nikon**



**TECHNIQUE**

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## RETOUCHER'S GUIDE

How to create noise-free skies

**NEW SERIES**

PAGE 45



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# PORTRAITS BY WINDOW LIGHT

Simple, cheap set-ups and stunning results



## Extreme Jacket 2

Some main points/features...

Outer shell is 100% polyester micro suede, DuPont Teflon treated to repel dirt, water and unwanted stains, with TPU lamination in more than 8033mm waterproofing and 5826g/m<sup>2</sup>/24hrs breathability

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2x Bellowed Chest compact pockets and 2x Fleece lined hand warmer pockets

1x Extra large rear pockets expands to "Sit Anywhere Sheet"

For full details please see web [www.stealth-gear.com](http://www.stealth-gear.com)

Jacket/Vest and Trousers available in 'Rural' green and 'Urban' grey

## Extreme Trousers 2N

Outer shell is 100% polyester micro suede, DuPont Teflon treated to repel dirt, water and unwanted stains, with TPU lamination in more than 8033mm waterproofing and 5826g/m<sup>2</sup>/24hrs breathability. Reinforced panels 100% nylon, waterproof and breathable and windproof, DuPont Teflon treated, in contact areas. Removable knee pads - Removable internal gaiters - Brace attachments - Ventilation zips on top sides of trousers, stay cool in summer

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The camo-tree camouflage pattern was designed in the U.K. by a team of photographers, specifically for the U.K. countryside, and is suitable for all year round use. Hides are of spring steel construction and can be setup in seconds. There is a cup holder in chair and both are ideal to be used with monopod & tripods. Both are manufactured from heavy duty polyester material and come with a carry backpack.

**1 Man Hide:** Height :1.35M - Base length :1.1m - Base width :0.8m Weight approx: 11.7lbs. (Blind & Chair)

**2 Man Hide:** Six windows for 360° viewing - Height: 1.52M Length: 1.55M - Depth: 1.32M - Weight approx: 17lbs (Blind & Chair) Chair capacity: 500lb

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## High Quality Square Filter System

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[www.stealth-gear.com](http://www.stealth-gear.com)

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**Web: [www.stealth-gear.com](http://www.stealth-gear.com)**

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**Amateur Photographer** For everyone who loves photography

**WHEN** I became a professional photographer, I spent quite a lot of time and effort – not to mention more money than I really had – on choosing the right kit for shooting portraits. I bought three studio heads, softboxes and brollies, stands, cables, snoots and backgrounds. While even then I appreciated the kit wouldn't take the picture or have the ideas for me, I did believe that I couldn't take a portrait without it all. More importantly, I suppose, I thought that clients wouldn't believe I could take a picture without all the expensive gubbins.

I enjoyed 'studio' lighting then, and I still enjoy its construction and the total control it offers, but there is nothing, frankly, quite as exciting as daylight. I do like

to be in command, and while the quality and quantity of daylight is most often the choice of a being higher even than the AP Editor, there is still great sport in working with what you have been given. Daylight is infinitely variable by the fact that as we rotate around the sun, the same combination of angle, intensity and diffusion is rarely repeated exactly. And in a room with windows, nets, curtains and blinds, the portrait photographer has all the tools he or she could hope for – and for free! Be inspired by Richard Sibley on page 45.



**Damien Demolder**  
Editor

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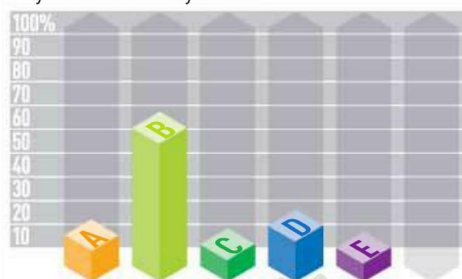
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**IN AP 10 DECEMBER WE ASKED...**

Do you have all the kit you need?



**YOU ANSWERED...**

A Yes, I have plenty – all I need and want	12%
B I have all that I need, but not all that I want	57%
C I just need one more thing	8%
D There's loads that I need	16%
E I hardly have anything but am content	7%

**THIS WEEK WE ASK...**

Do you shoot portraits?

**VOTE ONLINE** [www.amateurphotographer.co.uk](http://www.amateurphotographer.co.uk)

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David Clark on Bill Brandt, whose unique, diverse body of work made him one of the most admired photographers of the 20th century

**HOW TO HAVE YOUR PICTURES PUBLISHED IN READER SPOTLIGHT** Send in a selection of up to ten images. They can be either a selection of different images or all have the same theme. Digital files sent on CD should be saved in a Photoshop-compatible format, such as JPEG or TIFF, with a contact sheet and submission form. Visit [www.amateurphotographer.co.uk/spotlight](http://www.amateurphotographer.co.uk/spotlight) for details. We cannot publish images without the necessary technical details. Each RGB image should be a minimum of 2480 pixels along its longest length. Transparencies and prints are also accepted. We recommend that transparencies are sent without glass mounts and posted via Special Delivery. For transparencies, prints or discs to be returned you must include an SAE with sufficient postage.

**HOW TO CONTACT US** Amateur Photographer, IPC Media, Blue Fin Building, 110 Southwark Street, London SE1 0SU **AP Editorial Telephone:** 0203 148 4138 **Fax** 0203 148 8123 **Email** [amateurphotographer@ipcmedia.com](mailto:amateurphotographer@ipcmedia.com) **AP Advertising Telephone:** 0203 148 2517 **Email** [lee\\_morris@ipcmedia.com](mailto:lee_morris@ipcmedia.com) **AP Subscriptions Telephone:** 0845 676 7778 **Email** [ipcsubs@qss-uk.com](mailto:ipcsubs@qss-uk.com) **AP test reports Telephone:** 01707 273 773 [www.testreports.co.uk/photography/ap](http://www.testreports.co.uk/photography/ap)





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SHARE THE PASSION



Entire Olympus boardroom to resign • Probe confirms massive fraud

## OLYMPUS BOARD TO QUIT AMID £1.1 BILLION COVER-UP

**OLYMPUS** bosses masterminded a £1.1 billion fraud helped by a culture of 'yes-men' who turned a blind eye, the first official investigation into the accounting scandal has found.

The Olympus-commissioned probe branded executives responsible for one of the biggest corporate scandals in Japanese history as 'rotten to the core'.

Bosses instigated a complex web of overseas deals to keep massive losses – made from Olympus's investments – off the company balance sheet, using over-priced acquisitions and funds disguised as financial fees, to pull off the 134.8-billion-yen cover-up.

The 'loss-separation scheme' is a throwback to 1990s Japan, when firms sought to flatter their balance sheets by making losses 'fly away' – a ruse known as a Tobashi scheme.

The report prompted Olympus to hint that its entire board of directors is set to resign in the coming weeks – a move that will boost the hopes of the firm's whistleblowing former CEO Michael Woodford, who is campaigning for his old job back.

Woodford, a Briton, was sacked in October after questioning colleagues over the suspicious deals. At the time, Olympus claimed Woodford was fired over a clash of management styles.

Olympus's former vice-president Hisashi Mori and the firm's ex-auditor Hideo Yamada were the brains behind a scheme that covered up accounting losses dating



**Current Olympus CEO Shuichi Takayama now agrees that a boardroom clear-out is the best way forward**

back to the 1990s, states the 'independent' third-party panel, led by a former Supreme Court judge.

External accountants also come under fire in the report, along with several investment bankers.

The report called for legal action to be taken against those responsible.

However, the investigation found no evidence that the financial malpractice had links to Japan's notorious 'yakuza' criminal underworld, as has been rumoured

in the press in recent weeks.

Woodford, who has never said he suspects crime gang connections, is helping authorities as part of separate, ongoing inquiries in Japan, the US and the UK.

In an interview with AP in November, Woodford said the crisis 'strikes at the heart of a boardroom culture of sycophancy and yes-men', a theme borne out by the Olympus investigation, which slams an endemic reluctance to 'rock the boat'.

'There was a problem in corporate culture and mind,' confirmed the report.

'Past presidents lacked the sense of transparency and governance, and one had to be prepared to be kicked out of the company in order to make objection, even if it was the right thing to do (this is also apparent from how Woodford was treated).'

Key factors in the longevity of the cover-up were external parties who advised, helped and assisted in the concealment.

One of the dubious deals involved a finance firm based in the Cayman Islands.

'The core part of the management was rotten and the parts around it were also contaminated by the rot,' continued the report. 'Olympus had originally been a sound company with diligent employees and high technical strength... Olympus should remove its malignant tumour and literally renew itself.'

Olympus shares rose slightly on news that the board plan to step aside, having, at one stage, lost more than 70% of their value since the crisis was exposed.

## SNAP SHOTS

● Jessops has struck a deal with supermarket giant Tesco, allowing Tesco Clubcard vouchers to be exchanged for Jessops tokens. Jessops says the scheme allows customers to turn every £5 in Clubcard vouchers into '£10 worth of Jessops reward tokens'.

● Amateur and professional photographers have until 4 January 2012 to submit entries to the Sony World Photography Awards 2012, with an overall prize of \$25,000 cash. The Open category, for photo enthusiasts, boast a \$5,000 award. For details visit [www.worldphoto.org](http://www.worldphoto.org).



To keep up to date with all the latest photography news on the AP website, scan this symbol with a QR code reader on your mobile phone, iPad or iPod.

## FUJI BRANCHES OUT INTO FACE CREAM

**FUJIFILM** is gearing up to launch anti-ageing skincare products that use technology designed to make film last longer.

The Astalift range, until now only available in Japan and China, will be launched in Europe in February.

A spokesman said: 'Fujifilm's Astalift range is a comprehensive anti-ageing skincare brand, developed using cutting-

edge core technologies accumulated over many years of research and development of photosensitised materials.

'These distinctive technologies include the findings of its own collagen research, anti-oxidization technology and nanotechnology.'

The Astalift range will be launched first in France in February, ahead of the UK, Germany and Spain.



## Do you have a story?

Contact Chris Cheesman  
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[amateurphotographer@ipcmedia.com](mailto:amateurphotographer@ipcmedia.com)



A week of photographic opportunity

## PHOTODIARY

Wednesday 3 January

**EXHIBITION** Work and Performance by Sandra Lousada, until 20 May at the National Portrait Gallery, London WC2H 0HE. Tel: 0207 306 0055. Visit [www.npg.org.uk/press](http://www.npg.org.uk/press). **EXHIBITION** Landscape Photographer of the Year, until 28 January at National Theatre South Bank, London SE1 9PX. Tel: 0207 452 3400. Visit [www.take-a-view.co.uk](http://www.take-a-view.co.uk).



© SANDRA LOUSADA

Thursday 4 January

**EXHIBITION** Façades by Carita Laamanen, until 17 January at Department of Coffee and Social Affairs, London EC1N 7SU. Visit [www.caritalaamanen.com](http://www.caritalaamanen.com). **EXHIBITION** Behind the Curtains by Tomas Van Houtryve, until 8 January at Third Floor Gallery, Cardiff CF10 5AD. Tel: 02921 159 151. Visit [www.thirdfloorgallery.com](http://www.thirdfloorgallery.com).



© CHRIS MOORE

Friday 6 January

**EXHIBITION** Catwalking by Chris Moore, until 10 February at Kings Place Gallery, London N1 9AG. Tel: 0207 520 1485. Visit [www.kingsplacegallery.co.uk](http://www.kingsplacegallery.co.uk). **EXHIBITION** Taylor Wessing Photographic Portrait Prize 2011, until 12 February at National Portrait Gallery, London WC2H 0HE. Tel: 0207 306 0055. Visit [www.npg.org.uk](http://www.npg.org.uk).

Saturday 7 January

**EXHIBITION** And Time Becomes a Wondrous Thing, by Hasselblad Award winner Sune Jonsson, until 7 January at PM Gallery, London W5 5EQ. Tel: 0208 567 1227. Visit [www.ealing.gov.uk/pmgalleryandhouse](http://www.ealing.gov.uk/pmgalleryandhouse). **DON'T MISS** Winter Bird Walk (10am-noon) at Newtown National Nature Reserve, Isle of Wight PO30 4PA. Tel: 01983 741 020.

Sunday 8 January

**DON'T MISS** Neolithic New Year walk (10am-3pm, price £6) around ancient monuments of Stonehenge, Salisbury Plain, Wiltshire. To book call 0844 249 1895 (5% booking fee). **EXHIBITION** The Day the Music Died, features musicians who met untimely deaths, until 5 February at Proud Camden, The Horse Hospital, London NW1 8AH. Tel: 0207 482 3867. Visit [www.proud.co.uk](http://www.proud.co.uk).

Monday 9 January

**EXHIBITION** Hotshoe Photofusion Award, until 20 January at Photofusion, London SW9 8LA. Tel: 0207 738 5774. Visit [www.photofusion.org](http://www.photofusion.org). **EXHIBITION** Gibson Through The Lens, features vintage images of musicians who are fans of Gibson guitars, until 31 January at the O2, London SE10 0DX. Visit [www.britishmusicexperience.com](http://www.britishmusicexperience.com).

Tuesday 10 January **LATEST AP ON SALE**

**EXHIBITION** Hertford in HDR, by Nigel Lomas until 6 February at Hertford Theatre Gallery, Hertfordshire SG14 1PS. Tel: 01992 504 537. Visit [www.hertfordtheatre.com](http://www.hertfordtheatre.com). **EXHIBITION** Mini Print 2011, until 21 January at Artlink Centre, Hull HU5 3QP. Tel: 01482 345 104. Visit [www.artlink.uk.net](http://www.artlink.uk.net).



Bridge camera to take on entry-level models

## LEICA PRIMES V-LUX 3 FOR DSLR SHOWDOWN

**LEICA** has unwrapped a new bridge camera, the V-Lux 3, sporting a 24x optical zoom lens.

Primed to take on the 'entry-level DSLR' market, the £690 V-Lux 3 features a Leica DC Vario-Elmarit f/2.8 lens designed to deliver the 35mm viewing angle equivalent of a 25-600mm zoom.

Features include 12-frames-per-second (fps) shooting at full resolution and full HD (1920x1080-pixel) video in AVCHD and MP4 format.

Billed as an ideal camera for travel, the V-Lux 3 is due to go on sale this month.

'The enormous focal-length range covers almost all photographic situations, normally requiring cameras with interchangeable

lenses,' claimed Leica's product manager for Digital Compact Cameras, Peter Kruschewski.

'The V-Lux 3 is therefore an attractive alternative to entry-level DSLR cameras, particularly where size and convenience are paramount.'

The newcomer incorporates a twistable, 3in screen (460,000-dot resolution) and colour LCD viewfinder (202,000 pixels).

Also on board is a raw-format shooting option and the ability to attach a stereo microphone.

A 60fps burst rate is possible at 3.5MP resolution, according to Leica.

An optional black 'outdoor' case will be available, priced £135.

## PHOTOGRAPHERS FIGHT TO SAVE NATURE RESERVE

**PHOTOGRAPHERS** have launched a campaign demanding that councils abandon plans to build hundreds of new homes near a nature reserve in the North-East of England.

Photographers Kaleel Zibe and Alan Hewitt have blasted plans by Newcastle and Gateshead councils to build up to 600 homes near Gosforth Park Nature Reserve as 'ill-thought-out'.

'If the houses are built here, wildlife will have nowhere to go and will die,' they claim.

Campaigners say deer, badgers, hares and red squirrels are among the species under threat.

The Natural History Society of Northumbria expressed fears that fields providing 'essential foraging habitat' will

be destroyed. 'Without this habitat the wildlife will be lost for ever,' claims the society on its website at [www.nhsn.ncl.ac.uk](http://www.nhsn.ncl.ac.uk).

The plans, announced by Gateshead Council and Newcastle City Council, are part of the 'One Core Strategy 2030' project, which is aimed at boosting the local economy.

A draft of the proposals, which are subject to consultation, states: 'Our shared vision is to provide for our increased population, anticipated to be at least 500,000 by 2030 and within this to increase our core working age population (20-64 age group) by around 9,000 from the 2010 level, to 300,400.'



## SNAP SHOTS

● The Wildfowl & Wetlands Trust is calling on nature photographers to enter the winter heat of its photography competition, which closes on 29 February 2012. The winners of four seasonal heats will go forward to the national finals in the autumn. Visit [www.wwt.org.uk/photo](http://www.wwt.org.uk/photo).

● A photo competition celebrating the people and places of North-East England received double the number of entries of the previous year. The Port of Tyne Reflect contest pulled in 3,000 photos from more than 800 entrants. To view the winning images visit [www.portofTyne.co.uk/reflect](http://www.portofTyne.co.uk/reflect).

● Canon has launched cashback promotions for 18 models in its EOS, iXUS and PowerShot camera ranges, plus printers and camcorders. The promotion, which includes £100 off a Pixma Pro 9500 Mark II printer, runs until 25 January 2012. Claims must be made by 24 February 2012. For details visit [www.canon.co.uk/wintercashback](http://www.canon.co.uk/wintercashback).



## Do you have a story?

Contact Chris Cheesman  
Tel: 0203 148 4129  
Fax: 0203 148 8130  
[amateurphotographer@ipcmedia.com](mailto:amateurphotographer@ipcmedia.com)

Met Police reject AP's Freedom of Information request

## POLICE REFUSE TO PROBE TERROR STOP FIGURES

**POLICE** have refused to say how many photographers they stopped under anti-terror legislation, on the grounds of cost, despite a highly publicised campaign that forced a change in the law.

Since the Government scrapped the 'no suspicion' Section 44 stop-and-search law in July 2010, there continue to be cases of photographers being stopped under Section 43 of the Terrorism Act.

Unlike Section 44, Section 43 requires an officer to 'reasonably suspect' a person of being a terrorist, before conducting a stop and search to discover whether they are in possession of anything that may constitute evidence they are a terrorist.

In a Freedom of Information (FOI) request, AP asked the Metropolitan Police to disclose the number of stops made by police under Section 43, in relation to photography, from January-June 2010, and the figure for the 14-month period since July 2010, when the Government abolished the use of Section 44.

However, the Met flatly rejected the FOI request on the grounds of 'cost', telling AP that its database fails to record whether a person had been taking photographs when they were stopped.

## NO RECORDS

In a statement accompanying the FOI rejection, the Met told AP: 'The stops database, which is the system that is utilised to record all stops and searches, categorises the reason for the search but does not provide the depth of detail to determine whether the person searched was a photographer or non-photographer.'

The Met added: 'It is feasible that the fact that the person was a photographer or in the act of taking photographs may be mentioned within the search grounds, but it would require a manual search of all stop-and-search forms which are located at each of the 32 boroughs in the Metropolitan Police area.'

Last year, an amateur photographer was left fuming when officers stopped and searched him under Section 43 of the Terrorism Act while he was photographing birds.

Police said the student, who was from Pakistan, happened to be near a Territorial Army (TA) base in East London.

AP's news editor witnessed a similar incident last summer, on London's Albert Embankment, involving two French tourists.

The Met said officers completed 550,000 stop-and-search forms over the past year and that the cost of manually



Photographers campaign outside Scotland Yard, before the Government announced its counter-terrorism review. However, police continue to have stop-and-search powers

collating the data would exceed the '£450' limit set for such requests under current regulations.

'This represents the estimated cost of one person spending 18 hours [at a rate of £25 per hour] in determining whether the MPS [Metropolitan Police Service] holds the information, and locating, retrieving and extracting the information,' continued the Met's statement.

When pressed by AP, following the FOI refusal, the Met made clear that it is still not obliged to log such data on their systems.

AP asked the Met to explain why such details are not recorded on its computer system in the first place.

In response, Inspector Andy Walker from the Met's Stop & Search Team, said that the 'Search Codes' available to officers do not include one specific to photography.

Walker pointed out that there is a code

specific to 'Terrorism s.43', but he added: 'There is no code which is specific to photographers or camera equipment.' The other nine codes are: Stolen Property; Drugs; Firearms; Offensive Weapons; Pointed/bladed articles; Going Equipped; Other Power; Anticipated Violence; and Articles to cause criminal damage.

'The paper [stop-and-search] Form 5090 is an original document, which can be produced as evidence in legal (criminal or civil) proceedings,' Walker wrote in a letter to AP.

'The database on which searches are recorded is purely an analytical tool for capturing statistics – this enables the MPS to respond to requests for data from the Home Office and other interested parties.

'It also enables the MPS to publish monthly stop-and-search data to the public via the Stop and Search Monitoring Report.'



AP  
THIS  
WEEK  
IN...

1937

Readers were warned that binocular-stealing gangs may be responsible for swiping miniature cameras from their unwitting owners. 'Race-course gangs select a "client" carrying a binocular case, sever the leather shoulder-strap with a pair of sharp shears and so add another pair of valuable binoculars to their collection,' wrote AP reader DE Benbow. He reckoned this might explain an increase in cases of miniature models reported 'lost' and warned owners to be on their guard. Carrying a 'distinguishable' ever-ready case may lead the thieves to their victim. 'The only solution seems to be a chain instead of a leather strap,' added Benbow.

enlargement of the smaller negative. same size as those from the larger negative. And to get the same hyperfocal distance with any lens, the f/ value of the stop has to be in proportion to its focus, so that a 6-in. lens requires a stop of 1/6 to equal the depth of focus of the same size enlargement as a 2-in. lens at 1/2, and so on. So cheer up, miniature camera users. You haven't wasted your money.—Yours, etc., H. L. KETTLE.

## LOST AND STOLEN CAMERAS.

SIR,—The number of miniature cameras reported as "lost" seems of late to be on the increase. May I offer the following warning and advice to miniature camera owners and readers of "The A.P."?

Race-course gangs select a "client" carrying a binocular case, sever the leather shoulder-strap with a pair of sharp shears and so add another pair of valuable binoculars to their collection.

I suggest that miniature cameras are being "lost" in the same manner, and as the "ever-ready" case makes a miniature camera easily distinguishable, warn photographers, especially miniature owners, against this form of "losing."

The only solution seems to be a chain instead of a leather strap.—Yours, etc., D. E. BENBOW.

## Competitions CURRENT AND FUTURE.

Indicates to whom to apply for further particulars.  
February 22-March 14. (H. L. Kettle, 10, The Road, Leicester.)  
L.M.S. (London) P.S. Twelfth Annual Exhibition open to Great Britain and Northern Ireland.  
February 12. (Clarence Pursell, Chief Accountant, L.M.S. Ry. Co., Euston Station.)

# CLUBNEWS

Club news from around the country

## BOOKHAM CAMERA CLUB

On 26 January the club plans to host a talk by Tony Earle, who spent 40 years working on Kodak research and development. The club meets in the United Reform Church Hall, Eastwick Road, Great Bookham, Surrey KT23 4BE. Visit [www.bookhamcc.org.uk](http://www.bookhamcc.org.uk).

## HEMEL HEMPSTEAD PHOTOGRAPHIC SOCIETY

The society has announced that renowned travel photographer and AP contributor David Noton will give a presentation at Leverstock Green Village Hall on 19 March at 7.30pm. Tickets cost £10. For details visit [www.hhps.org.uk](http://www.hhps.org.uk).

## SNAP SHOTS

● A photography group for people with disabilities plans to become a nationwide organisation. The charity, Photographers with Disabilities, aims to advance members' education in the 'art of photography'. Its facilities currently include a studio in Yate, near Bristol, which is available for hire. 'We aim to make this a national organisation with things going on all over the country,' said a spokesman. The group, which stages exhibitions, is also open to non-disabled members. Visit [www.photographerswithdisabilities.com](http://www.photographerswithdisabilities.com).

● Picture library giant Getty Images was forced to remove footage that purportedly showed the actor Omar Sharif in a furious row with a journalist who wanted a photo with him. Getty said the Egyptian actor, 79, had 'got annoyed' after a female journalist 'got in his way' at a film festival in Qatar. Media reports claim he appears to slap the woman. Getty had sent a clip of the apparent row to media organisations. AP understands that it was withdrawn owing to legal issues within Qatar.



## Do you have a story?

Contact Chris Cheesman  
Tel 0203 148 4129  
Fax 0203 148 8130  
amateur photographer  
[@ipcmedia.com](mailto:@ipcmedia.com)



'Lens started to go wrong'

# COUNTRYFILE WINNER USED FAULTY LENS

**THE WINNER** of the 2011 Countryfile Photographic Competition has told AP that she captured her prize-winning photo using a faulty lens.

Sarah Williams, 49, triumphed in the contest via a public vote, beating 11 other finalists to the £1,000 prize with her shot of a horse-drawn barge on the Grand Western Canal in Tiverton, Devon.

'It was almost the last shot of the day,' said Sarah, who was stunned when she heard the news on the BBC *Countryfile* TV show. 'The light was just right – the only good day that week during an awful summer.'

Sarah, an office manager at a firm of accountants in Somerset, told AP that she took the photo in June.

'My camera is a Canon EOS

40D with a 17-85mm IS USM kit lens, which actually started to go wrong when I was taking the photos,' she admitted.

'It had to have the diaphragm replaced and is the only lens I have. So, the prize of £1,000 of photographic equipment was greatly appreciated.'

The contest attracted more than 55,000 entries.

Sarah added: 'I am very pleased to think it will raise a lot of money for Children in Need [the best photo in each class is featured in the Countryfile 2012 calendar] and raise the profile of the Tiverton Canal Co and their horse-drawn barge.'

The 2012 *Countryfile* calendar costs £9, with at least £4 from each donated to Children in Need. To order, call 0844 811 7044.

## CELEBRITY PHOTOGRAPHER JAILED FOR NEARLY THREE YEARS

**A BRITISH** photographer has been jailed for 33 months after admitting three counts of sexual assault against models.

Lee Christopher Cropper, 31, of Tottenham, London N4, was sentenced at Wood Green Crown Court and was told he will remain on the sex offenders register indefinitely.

As AP exclusively reported last year, the Devon-born photographer was arrested in May and has photographed several celebrity clients.

Passing sentence, the judge also ordered the 'forfeiture and destruction' of photographs.

Cropper's clients included Sadie Frost and Billie Piper.



WW

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# APReview

The latest photography books, exhibitions and websites. By Oliver Atwell



© BRUCE DAVIDSON



BOOK

## Subway

By Bruce Davidson.

Steidl, £42, 140 pages, hardback,  
ISBN 978-3-86930-294-2

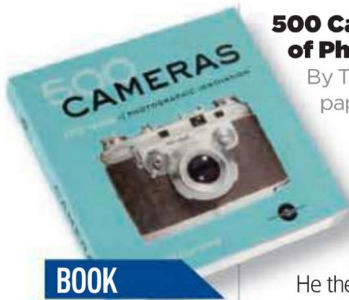
**BRUCE** Davidson likes to get his hands dirty. There are many photographers who immerse themselves in their subjects – war photographers, for example – but it's always exciting to

see someone burying himself in the kinds of environments that we as commuters and everyday citizens take for granted and pass by. This collection of images finds Davidson paying his toll at the booth and exploring the life he finds within the dark tunnels of New York's underworld, otherwise known as the subway. This is a really magnificent collection and it's a work populated by striking instances of light, colour and,

more importantly, fascinating characters. The smells of the subway almost seem to permeate the pages of the book, and a very tangible sense of unease and danger seems to hang over the images. If you want to see how street photography can be taken to a whole new level, then Bruce Davidson is the man you want as your guide.







### 500 Cameras: 170 Years of Photographic Innovation

By Todd Gustavson. Sterling, £17.99, 472 pages, paperback, ISBN 978-1-4027-8086-9

BOOK

**PHOTOGRAPHERS** can be a funny bunch. Show them a nice-looking or rare camera and they'll throw the shirt off their back and offer you the deeds to their house. If you're one of those people, then this book is for you. Gustavson's starting point is the camera obscura.

He then moves on through Kodaks, Box Brownies, iPhones and lands on the Leica M8. With so many cameras featured in the book, it's surprising to see a lot of information on each with a generously sized image of the model. This is may be one of many books of this nature on the market, but it is certainly an accessible volume and is therefore a perfect beginning for anyone looking to start a serious camera collection.



### Private Eye: Photographs by Lewis Morley

Until 16 April. Room 32, National Portrait Gallery, St Martin's Place, London WC2H 0HE. Tel: 0207 306 0055. Website: [www.npg.org.uk](http://www.npg.org.uk). Open daily 10am-6pm, until 9pm Thurs and Fri. Admission free

**THIS** show displays 12 of Lewis Morley's portraits of the founders and early contributors to *Private Eye*, a magazine that has found itself tied up in numerous defamation lawsuits. Last October the magazine celebrated its 50th birthday and Morley's images are a great way to celebrate its satirical tongue. Each of Morley's images demonstrates the humour and absurdities of the sitter, inevitable really when one of those subjects is the comedian Peter Cook (right). Morley was the man responsible for the world-famous 1963 image of model Christine Keeler during the Profumo scandal, which should give you some idea of the man's credentials.

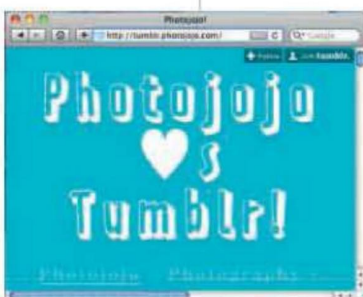


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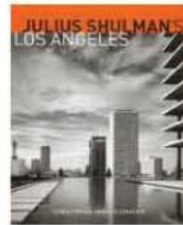
### tumblr.photojojo.com

**A LOT** of the blogs and websites we feature in these review pages are generally pretty straight-laced and serious, but that's most certainly not something this week's website can be accused of. The breezy design and quirky links and posts featured on Photojojo are a real breath of fresh air in an ocean of politically charged photography blogs and serious technique driven websites. Photojojo shows you the side of photography that doesn't – and most probably can't – take itself too seriously. The site features DIY projects (such as using the desktop picture on your computer monitor as a background in your photography), links to various photographers' work and numerous spots of advice for potential photographic subjects and techniques. Photojojo is a great site to visit when you feel like exploring the more whimsical side of your photography.



# CONDENSED READING

## A round-up of the latest photography books on the market



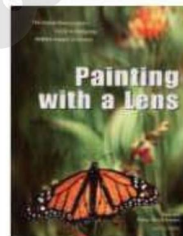
### ● JULIUS SHULMAN'S LOS ANGELES

by Christopher James Alexander, £6.99 This ace pocket-sized book contains a selection of architectural photographer Julius Shulman's images of Los Angeles, a city for which he has always felt a natural affinity. Shulman's images are created with a real sense of love and wonder, and it's clear to see why he loves the city as much as he does.



### ● WILDLIFE PHOTOGRAPHER

by Chris Gomersall, £25 This large book, subtitled *A Course in Creative Photography*, attempts to explore and break down exactly what it is that makes a great wildlife shot. Interestingly, Gomersall moves through a whole spectrum of wildlife, exploring not just British fauna but also animals overseas. Gomersall's advice is straightforward, genuinely helpful and his images are excellent examples of the genre.



### ● PAINTING WITH A LENS

by Rod and Robin Deutschmann, £24.99 This intriguing book demonstrates that not all creative effects have to take place in Photoshop. Simple techniques such as blur and working with the bulb setting can give you some excellent creative results. The book attempts to demonstrate the best ways to give your pictures that artistic edge and offers a series of interesting and illustrative images.



### ● LIGHTING ESSENTIALS

by Don Giannatti, £24.99 This book, which is *A Subject-Centric Approach for Digital Photographers*, takes a slightly different angle to lighting techniques. It attempts to put the subject first by exploring the contours and shapes of your model before applying the light. It's not exactly ground-breaking stuff, but it's a good introduction to lighting all the same.



# Letters

Share your views and opinions with fellow AP readers every week

## LETTER OF THE WEEK

Wins a 20-roll pack of 36-exposure Fujifilm Superia ISO 200 35mm film or a Fujifilm 4GB media card\*



FUJIFILM

### RELIC OF A BYGONE AGE

Like Damien Demolder's attachment to his favourite camera bag (AP 26 November), I have a photographic item I could never bear to part with. As a 15 year old, I was given a Kodak Retinette 1A camera by my dad. After having used a Kodak Instamatic 100 – with its 126 film cartridges – I found the Retinette, despite its basic settings of shutter speed, aperture and distance scale, rather frustrating. I persevered and gradually came to terms with 35mm film, which my dad processed for me and which led to my lifelong fascination with the darkroom.

Nowadays, I shoot both digital and film – usually with my Olympus OM-1n and OM10. But the Kodak Retinette 1A still gets a regular airing. It's in near mint condition and I'm struck by just what a handsome instrument it is. And I wonder how many other proud owners must have thought the same – particularly in the camera's heyday.

Given its age, the results are still first class when used with a decent lightmeter. Even my husband Tom – who uses a posh digital SLR and refers to my film cameras as 'relics from a bygone age' – has to applaud the quality of my scanned Retinette negatives when transformed into glossy A4 mono inkjet prints.

I could drop my Panasonic bridge camera tomorrow and replace it no problem. But to drop or, even worse, lose my little Retinette would be disastrous. Sure, I could replace it via eBay. But that would simply be another Kodak Retinette 1A, not mine, the one I've lovingly held onto all these years. There's a big difference.

**Suzie Cave, Tyne & Wear**

**There really is a big difference! – Damien Demolder, Editor**

## Write to...

'Letters' at the usual AP address (see page 3) fax to 020 3148 8130 or email to amateur photographer @ipcmedia.com

\*Please indicate whether you would like to receive Fujifilm film or a memory card (please state type preferred) and include your full postal address

## Backchat

Send your thoughts or views (about 500 words) to 'Backchat' at the usual AP address (see page 3). A fee of £50 will be paid on publication

good lenses, the detail we can get into our pictures is remarkable, and even superior to what anyone with 20/20 vision can see! But still we continue to worry about lens resolution and camera pixels when we talk about getting sharp pictures.

There is, however, another factor that seems under appreciated and not discussed as often as it should be – the ability of a person to hold the camera still. Manufacturers make optical image stabilisation and vibration reduction available for those who are 'in the know' about this, but still manufacture so-called 'prime' lenses and cameras without this facility, presumably for those who are not!

Being a bit of a nerd in this respect, I have satisfied myself that provided my camera has enough pixels, it is pointless using lenses that have anything less than the very best image-stabilisation mechanisms. Those who are like me, with a good camera like the Nikon D7000 or better, find that image stabilisation is now the limiting factor. But in this respect not all lenses are equal, and in magazine reviews the effectiveness of image stabilisation and vibration reduction is not considered other than just to acknowledge its presence. It would be good to see AP comparing the efficiency of image stabilisation and vibration reduction in lenses, for Canon and Nikon users, for instance. Of course, a standard shake test would have to be invented!

**Elvin Thurston, Norfolk**

**We have covered the differences between in-camera and lens-based stabilisation in an earlier feature. Perhaps we are due another one...**

**– Damien Demolder, Editor**

## GET THE MEASURE

The size of the sensor is a fairly crucial bit of information to have when looking at new cameras. It would be useful to have the same measurement units when describing cameras so we can work the size out ourselves. In a typical issue of AP, some of the sensor sizes mentioned are: 1/1.63in, APS-C (I know they vary), CX, four thirds (of what?), micro four thirds and 13x8.8mm. Of that lot, only the last one makes any sense. If all sensors were measured in the same units, we would have a starting point for comparison.

**Nigel Talamo, via email**

**We will do from now on – Damien Demolder, Editor**

## PLEA FOR AN E

The Sony NEX-7 mirrorless camera is exactly the model I have been waiting for, but my main concern is that the E-mount lenses available at present are a huge disappointment. However, the new Alpha-mount 16-50mm f/2.8 lens, which is for the Alpha 77, looks terrific. Will Sony be able to make a version of this lens with the E-mount fitting, so that one can use it with the NEX-7?

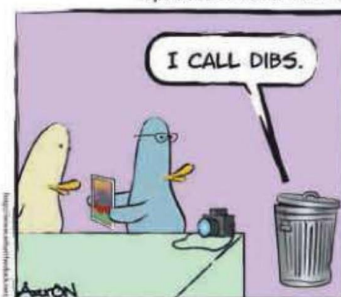
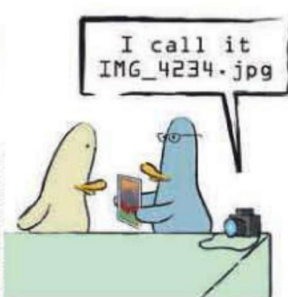
**Name and address supplied**

## MOVERS AND SHAKERS

Over the past 50 years we have witnessed tremendous advances in the quality of photographic reproduction. Even in the early '70s, colour reproduction with colour films was unsatisfactory, with excessive hue shifts in artificial light and blue flowers reproducing

pink – which is something we would never tolerate today. Films got better in their ability to reproduce sharp pictures, but remained the ultimate limiting factor in resolution of fine detail so professionals favoured large formats. But now, with digital imaging and sensors of 16 million pixels and more, plus

## What The Duck



<http://www.whattheduck.net/>





I think there is an assumption being made here because there have been very few reviews of the quality of the lenses in their own right, although of course a small contingent of samples are circulating. I have high expectations of the prime lenses. We are preparing the Zeiss 24mm f/1.8 lens for launch early this year, and we also have a G lens in the roadmap for the coming year.

The NEX is the most adaptable of all camera mounts, and can take lenses from almost any system with an appropriate adapter. I have met customers with an NEX-5 using it with Leica lenses, having sold their M9! But it can also be used with Canon EF, Nikon, whatever... I have even seen images of the NEX on the back of a CCTV camera lens, and a telescope. The world is your oyster for movie and stills recording – it's just a mount adapter away.

We also expect Sigma, Tamron, Cosina and Zeiss to all launch lenses themselves for the E-mount soon, since Sony has provided the option for other brands to obtain the licence free of charge – Paul Genge, Sony UK

#### CAMERA COSMETICS

Now that Fujifilm has started to produce a range of anti-ageing skincare beauty products, I wonder whether other manufacturers might start to do the same. For example, Epson could sell a premium glossy lipstick; Sony could produce a make-

up translucent mirror; Olympus could make an eyeliner pen; Elinchrom could do a nice line in highlights for the hair; and Panasonic might start a range of powder compact systems. **Melvyn Dover, Dorset**

**And Foveon could make silicon implants**  
– **Damien Demolder, Editor**

#### COSMIC CREATIONS

Usually, I avoid the toy and plastic camera phenomenon like the plague. You get what you pay for has always been my motto. So when I was asked by a friend to check out his 14-year-old daughter Kitty's latest pictures, I was totally taken aback. They were shot on film at Durham's Beamish Museum and then scanned into a computer. After being converted to mono and Photoshopped, they were printed out as hugely impressive A4 inkjets.

Kitty does own a digital camera – an Olympus Pen E-PM1 – but these particular pictures were taken on a plastic Cosmic Symbol. It's a Russian camera of alarming vintage featuring only basic controls, but in the right hands – in this case those of a 14-year-old girl – terrific results are attainable.

I'm not about to rush out and buy a Cosmic Symbol, Holga or Lomo. But Kitty's pictures are an eye-opening example of the ancient adage that it's who's behind the camera that's more important than what make or model the camera may be.

**Mike Bowman, Tyne & Wear**

**'The archer, not the arrow,' as my friend Paul likes to say** – **Damien Demolder, Editor**

#### DISEMBODIED CAMERAS

Digital cameras are getting ever smaller, so how long before manufacturers do away with camera bodies and run it all through a lens? **Abdurrahman Ozlem, via email**

#### THE DIGITAL DREAM

Regarding Nick Woodrow's letter in AP 12 November about 'digital film' in old cameras, I had this idea as well and once sketched out a 35mm-size cassette that had a digital sensor on a thin section that could be 'pulled out' just enough to slide back and forth and position over the area normally used for the film exposure. Mine had both Bluetooth (so images can be transferred without opening the back) and USB. The images themselves were contained in a tiny memory card with a USB connector that protruded out of the cassette in the same place as the old 35mm film's drive shaft. This would allow the whole thing to be taken out and plugged it into a PC. The sensor was 'protected' by a very thin clear film in the same way that LCD screens are now on digital cameras. This daydream would mean any 35mm film camera could be used, but digitally, anything from Leica rangefinders to Zenith Photosnipers and all those exotic lenses utilised. I imagine, though, that like the petrol-less car, vested interests would not like it. Yet the potential for all of us to use the beloved cameras of yesteryear, with manual controls just where we need them, would be tremendous.

I thought for a while that my second-hand Sony NEX-3 would fulfil some of this daydream and allow, as many compact system cameras do, the use of older lenses on a whole variety of adapter mounts. However, as I found out to my chagrin, these old lenses and my old macro bellows often contain a lot of dust. When I used them combined for a still-life macro image, where the camera was tilted up underneath some orchids for a long exposure, I got the dirtiest sensor imaginable and some careful cleaning was needed. The debris had all fallen down onto the sensor. Be warned!

**Kevin Burton, Staffordshire**

**Bellows and sensors are not good bedfellows** – **Damien Demolder, Editor**

# BACK CHAT

## AP reader David Askham treats the shortened daylight hours as an interesting photographic challenge

**IT IS** amazing how quickly the evenings close in once the summer becomes a mere memory. When we say goodbye to British Summer Time and the clocks are reset to Greenwich Mean Time, daylight photographic opportunities diminish. Amateur landscape photographers largely become limited to weekends to indulge their passion, unless alternative subjects are found that do not depend on daylight.

I have met many people who lose all their creative juices when winter is here. Cameras lie unused, while a few might tinker in the dark or lightroom.

Mine is a contrary view. I see the winter months as a refreshing change, presenting new challenges and opportunities. I love shooting the dawn and am blessed with a rural location that facilitates this indulgence. However, in summer it does call for some excessively early starts to the day, severely curtailing my nocturnal slumber. With shorter hours of daylight in winter, shooting dawn skies becomes a congenial pleasure with more benign timings. Furthermore, the meteorological conditions do seem to produce more pictorial dawn skies around the turn of the year than they in summertime.

For those so inclined, there are countless subjects in our larger conurbations for dramatic night photography. With care and sensible preparation it is even possible to use tripods in some public places, thus facilitating long exposures. Seasonal shop-window displays present another attractive target for the handheld camera. There is less risk of upsetting late shoppers and workers scurrying home from offices. While working in London, I would occasionally schedule an hour for photography before catching my train home in winter, thereby capturing some memorable scenes denied the daytime visitor.

Winter is the ideal time to practise indoor photography and to hone your skills in using artificial lighting. You do not need the latest flash systems, although they do widen your scope. Instead, experiment with ambient lighting around the home and discover the charm of natural, atmospheric lighting effects. They often surpass anything you are likely to simulate with studio lights.

Another profitable approach to whiling away long winter evenings is to tackle the summer backlog of new photographs. It is amazing how quickly computer hard drives can fill up with images awaiting editing and post-processing. Even the mere act of culling failures and rating your successes can rekindle pleasant memories of spring and summer photography. Taken a step further, the stars in your collection can be printed for exhibition, even if only on your walls at home or as gifts for loved ones. And, in the process, you will have also banished those dreaded winter blues.



# PHOTO INSIGHT

BRINGING  
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EVERY WEEK

**Frans Lanting explains how he took this vibrant and colourful underwater image of water lilies in Botswana's spectacular Okavango Delta wetland**

**TO ME**, one of the greatest challenges in photography is to define a personal point of view. During my work in Botswana's Okavango Delta, I looked for interesting ways to capture the essence of this great wetland and my response to it. The Okavango Delta covers thousands of square miles, but really it is just a thin sheet of water stretched across the sands of the Kalahari Desert. I was surrounded by water lilies and these drew me in. The water lilies symbolise life that is made possible by water in this dry land. I had photographed lilies covering lakes and giving shelter to an array of animal life, but I was searching for something more lyrical. I looked down in a clear lagoon and noticed how a patch of lilies was anchored in desert sand. An idea took hold. I decided to take a look at them from underneath.

I slipped into the swamp with my Nikon camera and wideangle lens encased in an underwater housing. As soon as I was in the water this caused the sediment to stir, so I had to wait until the sediment had settled, which used up a fair amount of my 'air time', so to speak, as I was 'free diving' rather than using any diving equipment.

When you're photographing underwater there is a lot to think about, not least the breathing element and visibility. You need to look for clear water, but even in the clearest waters you want to be as close as possible to your subject.

The Okavango Delta isn't very deep, with some of the lagoons being only a few metres. Photographing the water lilies from underneath opened up a whole new world to me. Suddenly, these lilies that looked quite ordinary from above the water became a magical swirl of plants, lifting

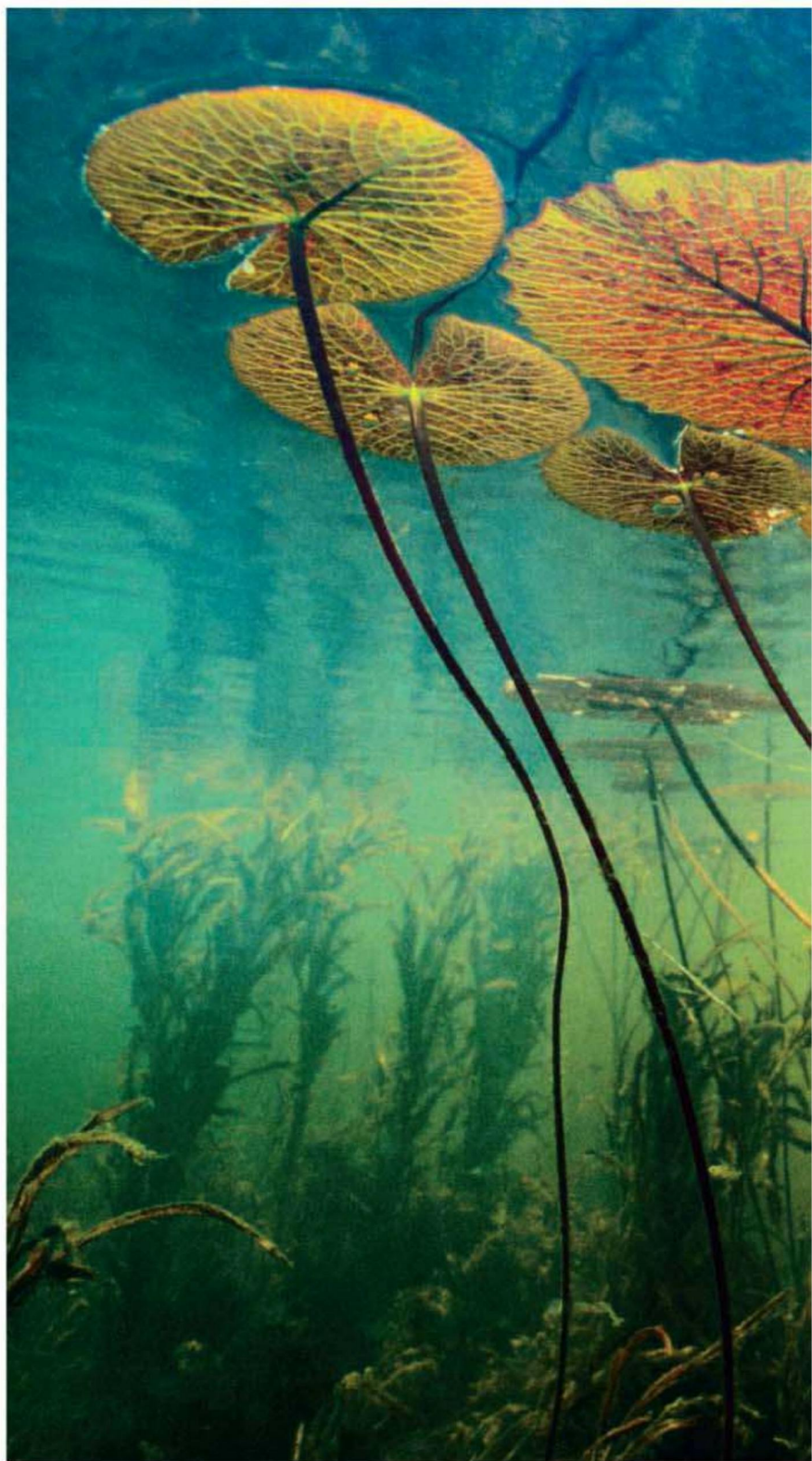


## FRANS LANTING

One of the most accomplished wildlife photographers of our time, Frans has won numerous awards for his immersive style of working. He will discuss his favourite pictures and share his techniques for capturing dynamic nature images

To see more images by Frans Lanting or read his World View columns, visit [www.lanting.com](http://www.lanting.com)

**WORLD VIEW**



themselves up to the light. The image is about the special quality of light and in particular the textures created by the light as it shines through the water.

I was intrigued by the sinuous curves of the lily stems and was looking for interesting configurations of the water lilies. I used only natural light for this image. The key to a shot like this is to take it not at the times favoured by traditional landscape photographers – such as the beginning and end of the day – but in the middle of the

day. This is when there is most penetration from the light into the farthest depths of the lagoon. The sunlight has also backlit the lilies and illuminated the veins. This makes for a lovely contrast with the light shining through the water.

I had a lever to my camera through the underwater housing that allowed me to adjust my focusing. I tried to previsualise the scene as much as possible and select my settings accordingly. In conditions like these you have to keep your shutter speed at





© FRANS LANTING

least 1/60sec or 1/125sec to keep things as sharp as possible. I do not recall the exact aperture, but I may have been using either f/11 or f/8 to provide a sufficient depth of field.

I came up to the surface a couple of times to adjust my settings. There was a lot of contrast, and the conditions were unpredictable so I used auto bracketing. I set my camera to take an auto bracketing sequence of three frames that were set a stop apart – 1 stop over and 1 stop under.

The most stressful thing was the fact there were crocodiles around. Crocodiles abound in this region. While an assistant stood guard in a small boat nearby, I held my breath on each dive, which allowed for less than a minute at the bottom. It took many attempts and the better part of a day for me to refine the image.

From the bottom of the swamp I saw that the lilies told a larger story about the anomaly of water in the desert. However, my perspective was of the

exuberance, not the limits, of life.

This was a daring shot for me to take. I look at this image now and think how changing the physical vantage point can make such a difference to an image. If you can change your viewpoint and find a technical solution for making the shot happen, you can turn an ordinary scene into something very special. The essence of photographic seeing is trying to look at things from a new point of view. There is always wonder in a new vantage point. **AP**

**Frans Lanting**  
was talking to  
**Gemma Padley**



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# **Retoucher's Guide**



Before

In the first of a new series on effective image editing, **Richard Sibley** creates smooth, noise-free skies in Adobe Camera Raw

**ONE OF** the great things about editing digital images is that there is no single correct way of doing things. As software developers come up with new features and tools, photographers discover new ways to edit and correct their digital images. In AP's new *Retoucher's guide* series, we'll not only explain how to edit and improve an image, but we'll also look at the tools and working methods involved.

By offering an insight into a particular

software technique or feature while editing an image, we hope you will learn a simple step-by-step technique, and then be able to take this knowledge and use it to develop your own way of working.

To kick things off, I'm going to demonstrate a technique to reduce the amount of noise and number of artefacts found in images of the sky. Rather than do this in editing software, such as Adobe Photoshop, I'm going to use Adobe Camera Raw. While





Before



After

**NEW  
SERIES**

**SOFTWARE USED** Adobe Camera

Raw and Photoshop

**SKILL LEVEL** ■■■■ ■

**TIME TAKEN** 20-30mins

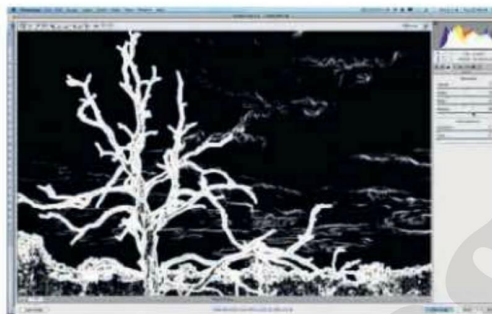
**KEY TOOLS** Adjustment Brush,  
Sharpening, Clarity Slider

most photographers simply apply colour, contrast, sharpening and noise reduction corrections in Camera Raw, it is actually possible to do more localised adjustments.

By selecting the sky, reducing the amount of local contrast and applying a slight blur, the sky can be made smoother for a much nicer image. To do this we are going to use the Clarity slider, which reduces local contrast between pixels. This in turn has a smoothing effect.



**1** Open the raw image in Adobe Camera Raw and perform all the basic colour and contrast adjustments. Zoom in to 200% and reduce all the noise reduction and sharpening settings to 0. This should allow you to see any colour and luminance noise.



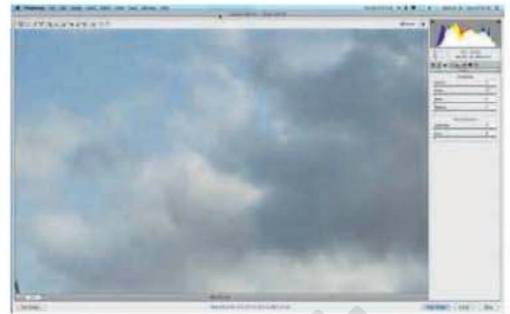
**3** Now hold down the Alt key while using the Masking slider. Anything black will not be affected by the sharpening, so the aim is to get as much of the sky as possible to be black, while leaving some edge detail in the clouds.



**5** Select the Adjustment Brush and reset all the Adjustments to 0 except the Clarity slider, which should be set to -10. Click on Show Mask and paint to adjust the sky, avoiding any detailed edges.



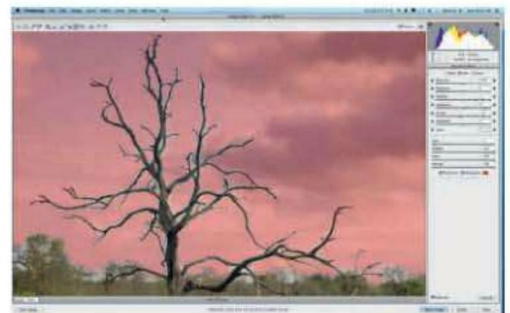
**7** Turn Show Mask off and switch to a 100% view to see how the following changes will affect the image. Reduce the noise by lowering the Clarity slider. This affects the local contrast, so it should even out the brightness of neighbouring pixels. Also, reduce the sharpness to add a slight blur. Only the sky should be affected.



**2** Zoom in to 100% and use the Amount, Radius and Detail sliders to sharpen the image. Don't worry too much about the sky becoming noisier.



**4** Find a part of the image that is affected by colour noise and use the colour noise slider to reduce the noise. You can be quite aggressive with this, particularly on newer raw conversion software. However, be careful as it can slightly reduce the colour saturation if used too much.



**6** Zoom in closer to any fine edges and select Auto Mask. Use a small brush to paint around any fine edges. There will usually be a slight halo, but for this effect it shouldn't be too much of an issue.



**8** Exit the Adjustment Brush tool and perform a luminance noise reduction of around 5-15 across the entire image. Now open the image in Photoshop (or similar) and use the Dodge tool, set to Highlights and 2% strength, to brighten highlights in the clouds. Then set the Burn tool to Shadows and 2%, and darken the shadows in the clouds. Finish with a final tweak in Levels.



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# TAMRON

New eyes for industry



# Putting on a show

London's Victoria and Albert Museum has recently opened a new permanent space dedicated to photography. **Gemma Padley** spoke to **Martin Barnes**, the museum's senior curator of photographs, about the history of the V&A archive and what visitors can expect to see

'Miss Nancy as a Shooting Star', 1928, by Cecil Beaton





**THE VICTORIA** and Albert Museum in South Kensington, London, is a bastion of all things photographic and has been since the early days of photography. Yet what many people may not know is that the V&A was the first museum to collect and subsequently exhibit photographs. It is home to the UK's largest collection of art photography, and its photography collections are some of the most diverse and extensive in the world.

Now a new permanent public gallery, called the Photographs Gallery, has opened, exhibiting some of the most exciting photographs from the collections. The gallery spans the period from 1839 to the 1960s, and is part of a major initiative to revive and refurbish spaces at the museum.

Martin Barnes, who has worked at the V&A for 16 years, is the museum's senior curator of photographs. 'This particular gallery wasn't being used to its full potential as a public space,' he says. 'For many years it had been a textiles study gallery. It was essentially a study room rather than a gallery space. It was clear that it should be a picture

gallery again and that the walls should be used to show pictures. The Photographs Gallery is part of an initiative to open up the original architecture of the V&A – to refurbish each of the permanent galleries to allow us to show the collections that are important but not seen enough. On display are the original prints.

'We decided to stop at the 1960s for two main reasons,' he adds. 'First, the prints and frames become much larger after this point. As an example, for one Gregory Crewdson print you could show several other prints, which makes more sense spatially. Second, the nature of a lot of large-scale and conceptual colour photography wouldn't sit quite right with the other prints, many of which are window mounted and framed in a certain way. We had to draw a cut-off point and this seemed like a sensible place.'

#### BACKGROUND

Since the V&A opened its first photography gallery at the museum in 1998, there has been a demand for another to show more

of the photography collections. 'The project is interesting to me because on one hand it's about the semi-historic refurbishment of an important gallery space in a major international museum, but on the other it's about using the space to show the history of photography,' says Martin. 'The space we had for photographs could be used to show a selection of what we have in the collections, but it's not big enough to spread out and show more of the history.'

'We wanted to show some of the old treasures from the permanent collections, including some of the really big names in photography, to remind people what we have in our collections,' he adds. 'The V&A is the natural home for photography in London – in 1856 it was the first museum to collect photographs and in 1858 the first to exhibit them. We wanted to claim that history back and make it visible. We're looking at the photograph as the finished result rather than the whole process of photography, such as the different cameras, lenses and papers.'

#### APPROACH AND SELECTION

When deciding what to put on display, the museum's approach was to think about the strengths of the collection, says Martin. Obvious choices included Julia Margaret Cameron, who is famous for her soft-focus and long-exposure portraits, and Henri Cartier-Bresson. Currently, pictures by both photographers are on display in the gallery as two 'In Focus' sections, which concentrate on a photographer in depth.

In an archive that houses 300,000–500,000 images across several collections within the museum, starting the selection process was always going to be a daunting task. 'The best way [to select the photographs] seemed to be to start with the traditional story of photography and look at what is held in the collections,' says Martin. 'It was a case of charting a selection of names that had to be included, such as Roger Fenton, Julia Margaret Cameron, Eadweard Muybridge, Man Ray, Eugène Atget and Bill Brandt. From these, you start to create a shape of what you feel the exhibition should look like. You can then see where you need to fill in the gaps, both stylistically and in terms of names of photographers.'

'I'm always conscious that when you experience photographs in a space, there needs to be a visual logic to the way they have been arranged,' he adds. 'If you just focus on one photograph, then stop, and go on to the next, you don't get a sense of that continuum – the elegance of the display is fragmented. I'm very keen not to choose just one great picture and then another and another, but rather look at how they relate to each other in sequence. It's about balancing out the contents and the aesthetics of the photographs.'

#### THE V&A ARCHIVE

Martin explains that the photographs in the V&A are kept in different collections across the museum. This is part of the reason why the number of images in the collection is

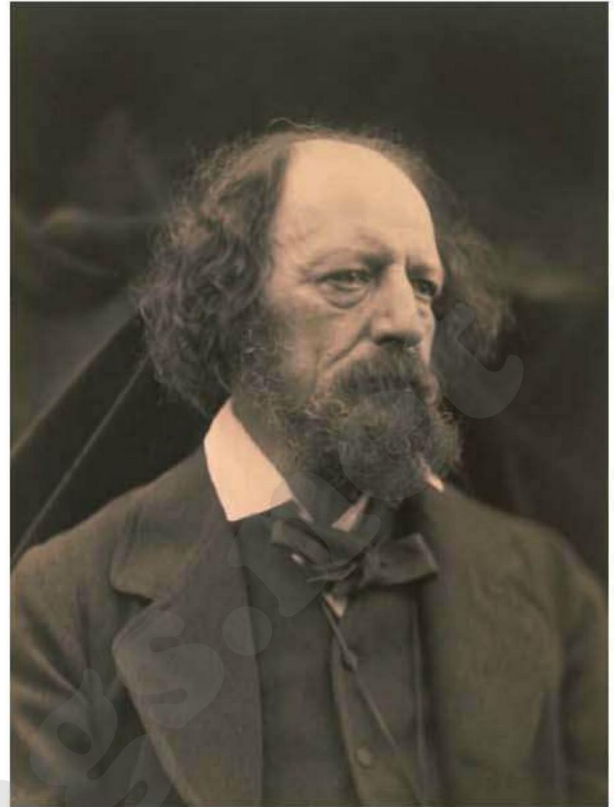
**Above: 'Old Furniture', from the series Street Life in London, 1877–78, given by Mrs D Crisp, by John Thomson**



Right: 'Saint Agnes', c1864, by Julia Margaret Cameron

Far right: 'Lord Tennyson', 1869, by Julia Margaret Cameron

Below: From the 'Universal Series' of domestic and overseas views, c1865, acquired from F Frith and Company, 1954, by Francis Frith







estimated. 'The main photographs we're dealing with here are from the Prints, Drawings and Paintings collection,' says Martin. 'These are usually about the "named" photographer. While loose prints are generally housed in Prints, Drawings and Paintings, we have books containing photographs that are kept in the library. There are also photographs in other departments, such as ceramics and sculpture, that date back to the 1850s, and in the South & South East Asia collection. The museum also collects negatives and archival material, and some items, such as

**'The Brig', 1856,  
by Gustave Le Gray**

an album of photographs, constitutes one item. Consequently, it's difficult to put an exact figure on the number of photographs the V&A has.'

The prints at the V&A are generally stored in boxes in dark, cool conditions at a constant temperature with acid-free mounts that won't cause damage. Other pictures that are too large to keep in boxes are kept in storage offsite. 'Most of what we collect now is contemporary photography, just as, for example, the people working at the museum would have collected Julia Margaret Cameron's work at the time,' says

Martin. 'But we've also been looking at filling in the gaps where we may have only one or two examples by a photographer.'

The museum has nearly 800 pictures by pioneering photographer Eadweard Muybridge, and 700 by the relatively unknown photographer Clementina Hawarden – a contemporary of Julia Margaret Cameron. What is on display is just the tip of the iceberg, though. 'We have a one or two photographs by Charles Clifford on the walls in the gallery, but there are 300 or 400 of his photographs in the collections,' says Martin. 'Through this gallery





I would like to flag up that there is more to see – people can visit the study room and enjoy the depths of the collections.'

#### INSIDE THE GALLERY

The photographs have been arranged so 'visitors can walk in a linear fashion and see different stylistic changes and visual approaches unfold in front of them,' says Martin. The gallery begins with a section called 'Discovery', which looks at how photographers explored different ways of creating photographs for different purposes. Included here are figure studies, landscapes,

**Right: 'Study from Life', c1864, by Lady Clementina Hawarden**

**Below: 'Album of Russian Types', c1860, by William Carrick**

V&A South Kensington, Cromwell Road, London SW7 2RL. Tel: 0207 942 2000. [www.vam.ac.uk](http://www.vam.ac.uk). Open daily from 10am-5.45pm and until 10pm every Friday (closed 24-26 December). Admission free. For more information about the Prints & Drawings study room (open Tue-Sat 10am-5pm) call 0207 942 2563.



architecture, and scientific and botanical photographs. 'We wanted to show the range of what was happening in photography in the 1840s and '50s,' says Martin. 'There is an example of a positive and a negative on display to show how this process revolutionised image-making, and visitors can also see the V&A's oldest photograph – a daguerreotype from 1839 of Parliament Street from Trafalgar Square in London.'

Another section called Documents, Records and Travel looks at where photography meets the commercial. Photographs in this part of the gallery show how people used photography as a means to explore the world, and work by commercial/travel photographer Francis Frith is featured. It was during this time that the carte de visite gained popularity and, in the 1870s, that the beginnings of documentary photography began to emerge. Elsewhere, there is space dedicated to the tussle that took place at the turn of the century between 'straight' photography and photography that was more painterly. 'You then hop over to the next wall entitled Modernism, which is where the dominance of straight photography is won in a machine-orientated Modernist period,' says Martin. Here visitors can see works by Russian photographer El Lissitzky and Man Ray.

#### HISTORY OF PHOTOGRAPHY

'For me, the oldest pictures have just as much excitement and visual appeal as the contemporary photography,' says Martin. 'I hope that visitors will be able to learn about the history of photography by looking at original prints – to see the quality of the surface of the print, to get a feel for what it looks like, its scale and so on. I hope they will be able to see what a wonderful tradition photography has within the context of fine art. Photography has been in a transitional state for a while now, especially in the digital age,' he adds. 'Digital has, in a way, won out against the chemistry, but digital practice comes from the chemistry. It's interesting to see where digital emulates analogue, and to trace its roots.'

'These are archives you won't really see anywhere else in the world, so it's right we should make a fuss of them. This collection belongs to everybody. I'm here to facilitate it and my role is an intermediary one. It's about saying, "This is here. Come and study or just enjoy looking at it."'





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1

## Loch Duntelchaig

**1** This stormy image is lent drama by the patch of light on the right-hand side

Canon EOS 5D, 17-40mm,  
20secs at f/13, ISO 100, 2-stop  
ND filter, tripod



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## Douglas Thomson Highland

Douglas took up photography around 20 years ago, when he bought an Olympus OM10 and 55mm lens. He soon found himself attracted to wildlife and landscapes, which is a passion that prevails to this day. Douglas now uses three cameras: a Canon EOS 300D that has been modified to take infrared images, a Canon EOS 40D for wildlife and a Canon EOS 5D for landscapes. His aim is to improve his quality of his images while appreciating the beauty, drama and tranquillity of the great outdoors.

### Boats at Loch Farr

**2** The stillness of this infrared image communicates a feeling of tranquillity

Canon EOS 300D, 17-40mm, 1/6sec at f/13, ISO 100, 2-stop ND filter, tripod

### Westray, Orkney Isles

**3** There's a great contrast here between the rugged cliffs and the delicate flowers

Canon EOS 5D, 17-40mm, 1/8sec at f/22, ISO 100, tripod

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## John Lynch West Sussex

John started taking his photography seriously in 1979, when he needed photographs of the English setters that he was breeding and showing. His first camera was a Minolta SLR, but he now uses a Sony Alpha 700 and a Canon EOS 3. His favourite subjects are wildlife and landscapes, and his top locations are the lake District and New Forest. John hopes he will continue to take photographs and slowly improve as time goes on.



### Nuthatch

1 John has used a shallow depth of field to emphasise his subject

Sony Alpha 700,  
70-400mm,  
1/125sec at f/5.6,  
ISO 400, tripod

### Great tit

2 The bird gripping onto the log provides an interesting composition

Sony Alpha 700,  
70-400mm,  
1/125sec at f/7.1,  
ISO 400, tripod

### Weaver bird

3 This stunning and vibrant bird is calling from its precarious nest site

Sony Alpha 700,  
70-300mm,  
1/500sec at f/5,  
ISO 100, handheld

### Puffin

4 The virtue of this shot is in its simple composition  
Sony Alpha 700,  
70-300mm,  
1/2000sec at  
f/5.6, ISO 200,  
tripod

### Chaffinch

5 The curvature of the branch adds an extra compositional element

Sony Alpha 700,  
70-400mm,  
1/180sec at f/6.3,  
ISO 400, tripod



3



4



5







## Jim Key Bucks

Jim has always been a keen point-and-shoot photographer, but after visiting Australia and seeing the stunning landscapes he decided to be a little more creative with his work. He now spends his time capturing the seasonal landscapes of the UK. Having just received a light tent and two lamps as a gift, he hopes to produce some still-life work in the dark winter evenings.



### Summer Leys

**1** Despite its small size, the swan is a strong subject here  
Canon EOS 50D, 17-70mm,  
1/30sec at f/8, ISO 200, tripod,  
remote release

### The Roaches

**2** The vibrancy of the colours really make this shot work  
Canon EOS 50D, 10-20mm,  
1/30sec at f/11, ISO 100, tripod,  
remote release, 0.9 ND grad

### Marigold Pond

**3** The reflections give the image a real sense of balance  
Canon EOS 50D, 17-70mm,  
1/30sec at f/8, ISO 160,  
handheld, 0.6 ND filter



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Amateur Photographer's...

## ICONS OF PHOTOGRAPHY

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# Bill Brandt

(1904-1983)





**Bill Brandt's** unique, diverse body of work made him one of the most admired photographers of the 20th century, writes **David Clark**

**WHETHER** Bill Brandt was photographing social documentary subjects, landscapes, portraits, urban scenes or abstract nudes, his work was marked with his own distinctive visual fingerprint. His images were often dark and dreamlike, at other times compassionate and humorous, but they were always atmospheric.

'He wasn't interested in anything that didn't lend itself to mystery,' said Sir Tom Hopkinson, former editor of *Picture Post*. 'The mystery was in Bill, and he projected it onto whatever he photographed.'

Brandt was a shy and private person, with, Hopkinson also observed, 'the gentlest manner to be found outside a nunnery'. He preferred his work to speak for itself and carefully avoided discussing his working methods and personal life.

He always claimed to have been born in London to parents of Russian descent, but after his death it was revealed that he had actually been born in Hamburg, Germany, and didn't settle in England until the 1930s.

His father, a British subject of European background, was the head of an import/export business and the young Brandt was encouraged to take an interest in the arts by his mother. However, he contracted tuberculosis at the age of 16 and spent the following six years being treated at a sanatorium in Davos, Switzerland.

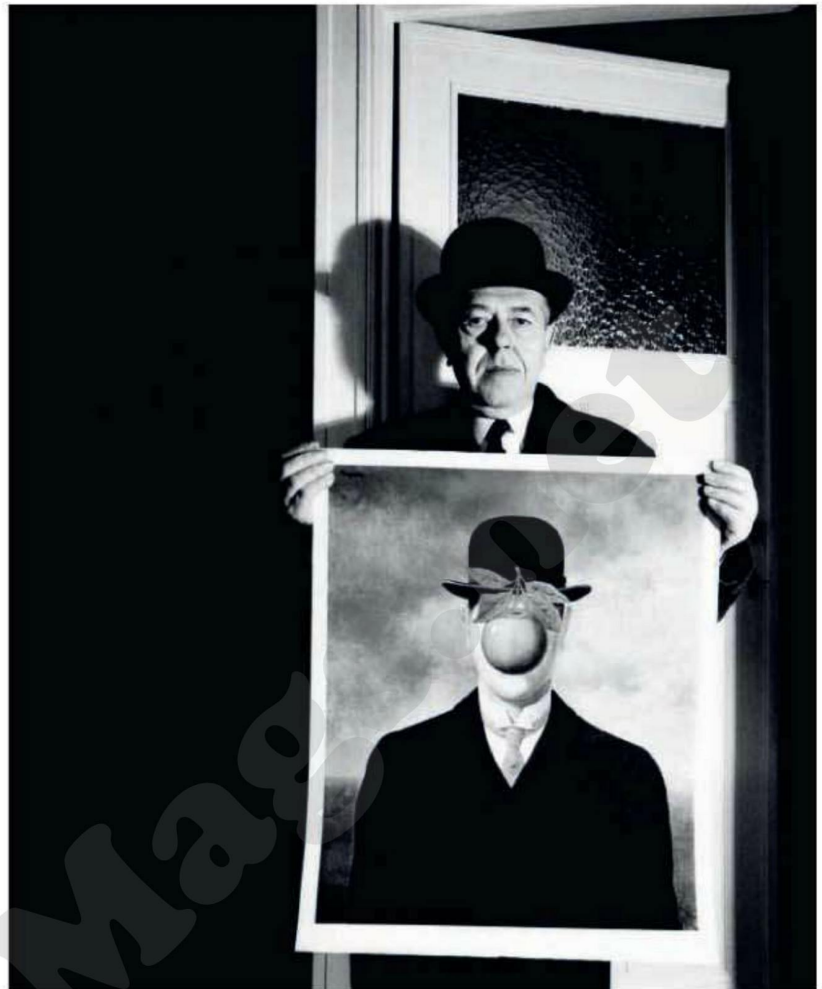
This was followed by a period of psychoanalysis in Vienna, Austria, where he began to study photography. While in Vienna, a family friend introduced him to the American poet Ezra Pound, who Brandt photographed. Pound, in turn, introduced him to Man Ray, then one of the most famous photographers working in Paris. In 1930, Brandt spent three months assisting in Ray's studio.

Ray gave him little formal instruction, but his passion for Surrealism, allied to his belief that photography could be a purely creative medium to explore the world of the imagination, had a lifelong influence on Brandt's work.

After settling in London in 1934, Brandt began working for *Weekly Illustrated*, then *Lilliput* and *Picture Post*. His first book, *The English at Home* (1936) was followed by *A Night in London* (1938).

English society fascinated him at this time and much of his early work documented life at opposite ends of the social scale. He photographed poverty-stricken families suffering in the 1930s Depression and, by complete contrast, the wealthy of London in their Kensington and Mayfair homes.

However, some of these 1930s



© BILL BRANDT ARCHIVE

images are far from a straightforward representation of real life. A number of the scenes that appear to have been observed on the street were carefully arranged by Brandt, and posed by friends and relatives, including his brother Rolf. Like the French photographer Brassai, whom Brandt greatly admired, he was not averse to blurring the lines between fiction and reality.

During the Second World War, Brandt photographed eerily silent London streets during the blackout and was commissioned by the Ministry of Information to document Londoners sheltering in Underground stations. Brandt's work, however, was about to undergo a radical change.

'Towards the end of the war, I gradually lost my enthusiasm for reportage,' he wrote in *Camera in London* (1948). 'My main theme of the past few years had disappeared; England was no longer a country of marked social contrast.' Instead, Brandt turned towards two new areas of work: landscapes and nudes.

Between 1945 and 1951, Brandt travelled widely around the UK, photographing landscapes for *Lilliput* and *Harper's Bazaar*. He was particularly interested in landscapes associated with novelists such as Thomas Hardy and the Brontë sisters, and produced his own often dark and brooding interpretations of these locations.

During the same period he began

photographing female nude studies. In 1944, he had bought a second-hand camera in London's Covent Garden for 5s (25p). It was a 1931 Kodak Wide Angle camera that had a fixed lens covering a 110° angle, and was mainly used by auctioneers or policemen documenting crime scenes.

Using this camera, he created a groundbreaking series of nude studies culminating in a series of distorted and abstract nudes shot on Sussex beaches. Figures became depersonalised, and limbs and other body parts were turned into almost sculptural forms. Brandt published his book, called *Perspective of Nudes*, in 1961, but intermittently continued shooting nudes until the late 1970s.

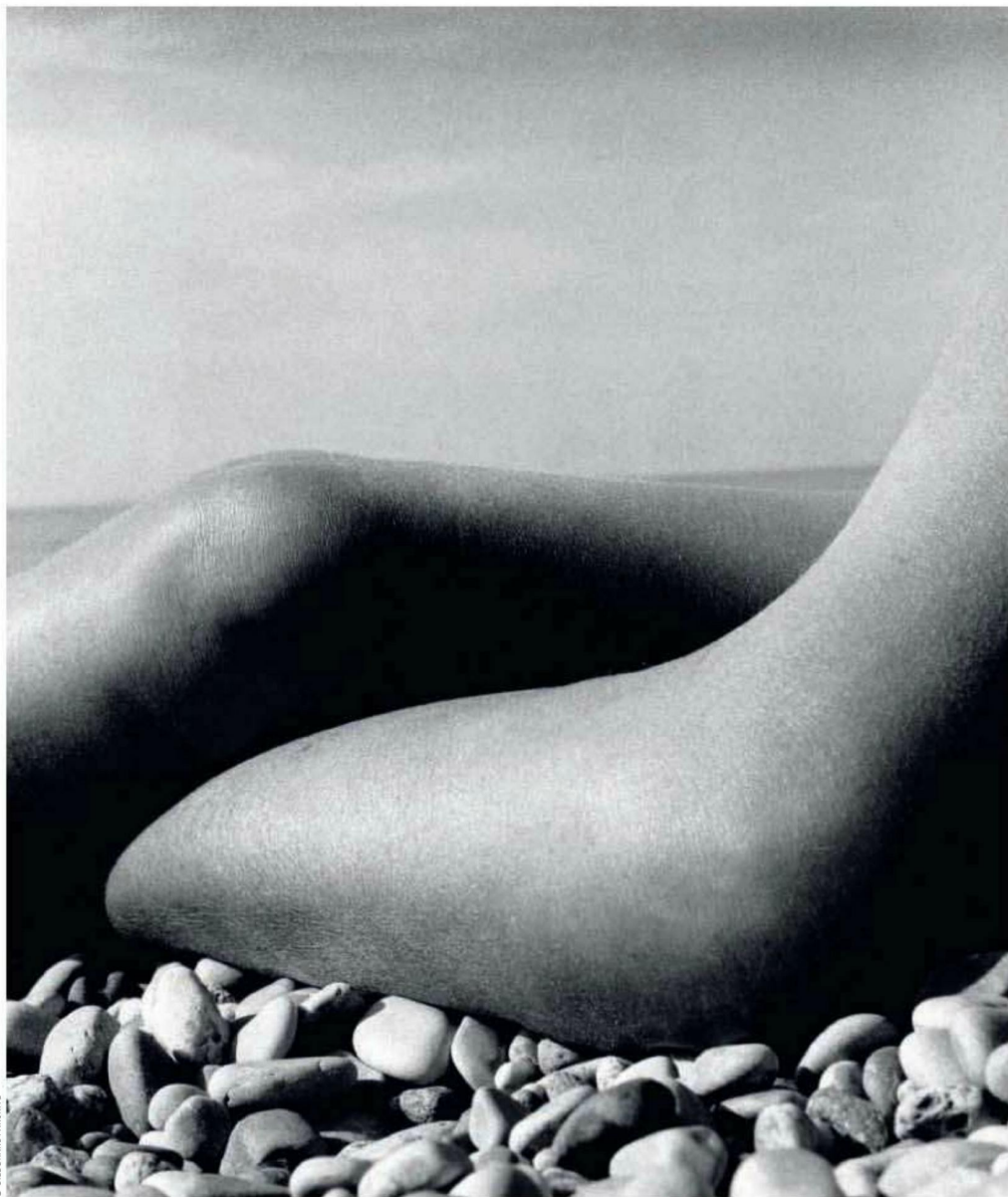
Brandt's creativity extended to the darkroom, where images were sometimes completely transformed. In order to obtain the effect he wanted, he sometimes completely removed detail from a print, replacing it with areas of pure black or white. He might also combine two negatives in a single print, or draw in details with a pencil.

'I am not interested in rules and conventions... photography is not a sport,' he continued in *Camera in London*. '...Photography is still a very new medium and everything is allowed and everything should be tried. And there are certainly no rules about the printing of a picture.'

**Left: Brandt peers over the Kodak Wide Angle camera he used to shoot his abstract nude studies in this portrait by Laelia Goehr in 1945**

**Above right: Surrealist artist René Magritte, photographed by Brandt in 1966 holding his painting 'The Great War'**





© BILL BRANDT ARCHIVE

➔ The last phase of Brandt's work mainly concentrated on portraiture. Between the late 1940s and the early '80s, he photographed a wide range of famous people, particularly writers, artists and actors, usually on assignment for *Harper's Bazaar* or *The New York Times Magazine*.

Brandt had his own way of getting behind the façades his sitters wanted to project. 'I always take portraits in my sitter's own surroundings,' he said. 'I concentrate very much on the picture as a whole and leave the sitter rather to himself. I hardly talk and barely look at him.'

'This often seems to make people forget what is going on and any affected or self-conscious expression usually disappears. I try to avoid the fleeting expression and vivacity of a snapshot. A composed expression seems to have a more profound likeness.'

Brandt shot his last portraits in 1981. He had been asthmatic since childhood and a diabetic since the 1940s, and his health was now deteriorating. He was working on an exhibition of his landscape work at the

Victoria & Albert Museum in London when he died in 1983, a few months short of his 80th birthday. The exhibition went ahead in 1984 as a tribute to one of the most widely admired photographers of his time. **AP**

#### BOOKS AND WEBSITES

**Books:** *Bill Brandt: A Life* by Paul Delany, is the best Brandt biography published to date. His working methods are examined in *Bill Brandt: Behind the Camera* by Mark Haworth-Booth and David Mellor. For a small-scale introduction to his work, see *Bill Brandt* by Ian Jeffrey (Thames & Hudson 'Photofile' series).

**Websites:** The official Brandt website is [www.billbrandt.com](http://www.billbrandt.com) and it includes links to numerous articles, details of prints for sale and the full 1983 BBC 'Master Photographers' interview with Brandt, which can also be found on [www.youtube.com](http://www.youtube.com).

**A model's knees appear like smooth blocks of stone in this beautifully composed abstract study, shot in 1959**

## Biography

### 1904

Brandt is born on 3 May in Hamburg, Germany. He is christened Hermann Wilhelm Brandt

### 1920

Contracts tuberculosis and begins a six-year course of treatment at a sanatorium in Switzerland

### 1930

Works in Man Ray's studio in France. He stays only three months in Paris, but Ray's ideas have a lasting influence

### 1934

Settles permanently in London and starts calling himself Bill Brandt

### 1936

Publishes his first book, *The English at Home*

### 1938

His second book, *A Night in London*, is published. *Picture Post* is launched and he begins contributing photographs to it

### 1940

Commissioned by the Ministry of Information to photograph life in wartime London

### 1944

Buys the Kodak Wide Angle Camera and begins to use it on his series of abstract nudes

### 1951

Publishes *Literary Britain*, his book of landscapes inspired by the work of British novelists

### 1961

The results of his experimental figure work is published in *Perspective of Nudes*

### 1970s

Works as a portrait photographer for *The New York Times Magazine*

### 1983

Dies on 20 December, aged 79

**'I concentrate very much on the picture as a whole and leave the sitter rather to himself'**





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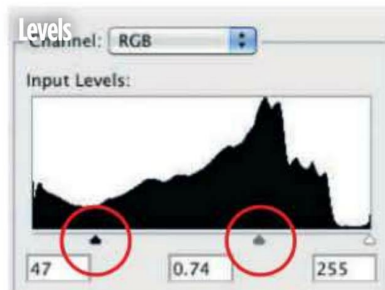


# APappraisal



Expert advice, help and tips from AP Editor Damien Demolder

PICTURE  
OF THE  
WEEK



## Tower block Alexey Samoylenko

Nikon D2Xs, 12-24mm,  
30secs at f/11, ISO 100

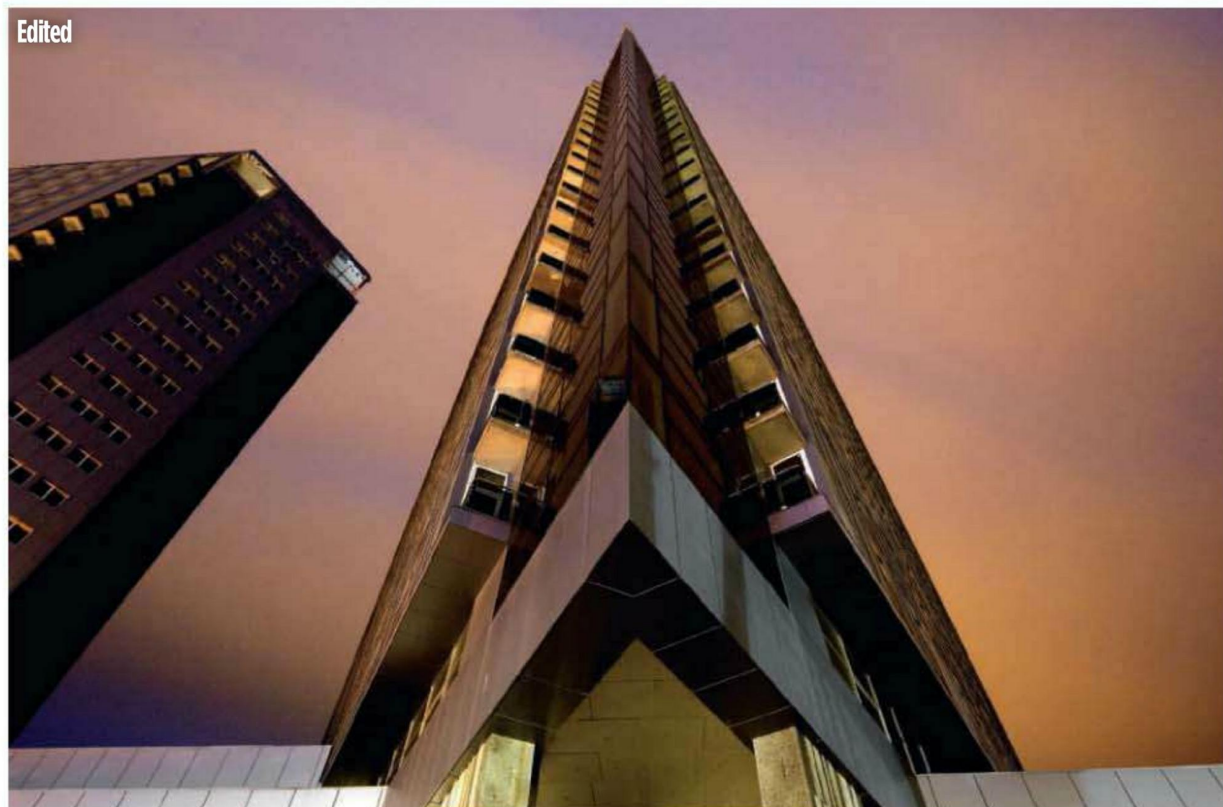
**THE IDEA** of architectural photography is that we recognise what is special or particular about a building, and take a picture that gets this special point across. Often the special element is a set of recurring lines or curves

that form a pattern. Alternatively, it could be any one of an infinite number of features that building designers like to employ. Sometimes, though, the stand-out feature is something that the architect didn't think about, but which the people who live around the building recognise over time. Either way, an architectural picture should point something out to the viewer.

Here, Alexey is showing us the sharp edge of this tower block. And from the view

chosen, the angles and lines of the structure look incredibly crisp and dangerous. It is a very powerful shot. Interestingly, the symmetry of the composition adds to the feeling of sharpness, but that building barging in from the left allows us symmetry and non-symmetry in the same frame. It enhances the angular nature of the image and the symmetry of the main building. They could be a pair of alien machines about to stamp humanity off the earth. The only thing I'd do is darken the midtones and shadows to bring out the colours a little more.

It is a powerful picture, Alexey, and it wins picture of the week.



## WIN

Every reader whose picture is chosen to appear in *Appraisal* will win a Camlink CMP1 walking stick monopod worth £19.99. The three-section collapsible walking stick monopod features a wrist strap, ergonomic handle and includes a nifty little compass into the bargain. To find out more about Camlink products, visit [www.camlink.eu.com](http://www.camlink.eu.com)

## How to submit your pictures

Send up to six prints, slides or images on CD (please include the original files from the camera along with your submitted versions on your CD). Tell us a little about the pictures and include details of equipment used and exposure settings. Send your images to *Appraisal* at the address on page 3. Enclose an SAE if you want them returned

**CAMLINK**



## Still life Timothy Dadswell

Pentax K-x, 18-55mm,  
1/8sec at f/10, ISO 400



**YOU WANT** to shoot a still life and search around for something to photograph. You've seen shots of wine bottles and candles before and decide to recreate the theme. You end up with a picture of a candle lighting up the label of a wine bottle, but one that tells no story and which no one will really find interesting. It was interesting to do, but ultimately you haven't created anything. I know the feeling – I have been there before.

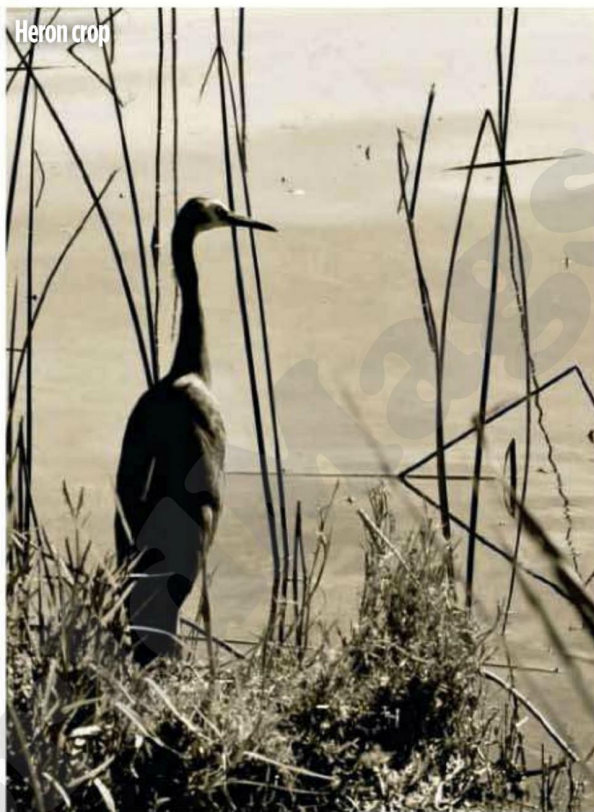
There are some nice features here, though, like the way the light picks out the wisp of the handle, and the exposure works equally well for the flame and the label, but there's a lot of blank space and the subject area is very small in the frame. Timothy could probably have done with a reflector, too, to push some light back into the dark side of the bottle. Shots lit by candlelight are rarely lit only by candlelight – there is usually some sort of fill-in to reduce the contrast.

Go back to the drawing board, Timothy, and think first about the story you want to tell. Let's see your much-improved version.

Original



Heron crop



## Heron and black swan David James

Nikon D5000, 18-105mm,  
1/400sec at f/10, ISO 200

**THIS** is a lovely setting that David has captured to show off those brilliant reflections of the swan's long curved neck and head. The shape of the swan and its reflection is delightfully elegant and reminds me of the f-hole on the sound chamber of a wooden double bass. The heron is captured well, too, looking to the right to show its head in profile and defining its bill perfectly against the lighter tones of the water. I like David's colouration, which suggests the muted colours of the beginning of the day.

The composition is a little muddled, though, and while my brain thinks it knows what the subjects are, it is wondering why David has crossed them out using the reeds. Of course, it is the birds we are supposed to be looking at, but the reeds that crisscross them form barriers that stop our eyes from reaching where they are supposed to be going.

It is also not clear which bird we should look at first – we almost have two main subjects and two different pictures, as each appears as important the other. I've made a couple of crops from the main image to demonstrate how each of the birds could exist on its own, and another to show that with careful composition you can include them both to emphasise their relationship with each other.

Although this is a well-spotted scene, David hasn't really made the most of it. The reeds, when rendered as sharply as this, make the picture difficult to get into and there's no direction from the photographer about where we should look first.

**'We almost have two main subjects and two different pictures'**

Black swan crop



Edited





# EXCLUSIVE 4-DAY PHOTOGRAPHY WORKSHOP

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**D**ue to popular demand, we've decided to run another exclusive Landscape Photography workshop hosted by landscape legend Charlie Waite and AP Editor Damien Demolder.

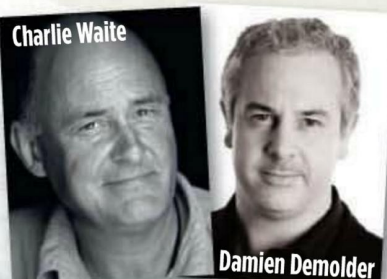
This exclusive tour will take place from 7-10 May 2012 among the enchanting landscapes of the Lake District. A group of just 14 photographers will be given guidance and tuition by these two top photographers in their field.

Based in the heart of the Lakes, at the charming Borrowdale Hotel, the group will travel in two minibuses to fantastic locations further afield. Charlie Waite, the founder of Light & Land, has a wealth of experience photographing Lakeland scenes and is expert at finding those magical

compositions that often elude others. Damien Demolder is gifted at explaining creative technique, as well as being knowledgeable about photographic equipment and its use.

The Lakes provide an astonishing variety of landscapes, from the bucolic beauty of sheep grazing in the Newlands Valley and the stark setting of the Neolithic Castlerigg Stone Circle beneath shapely Blencathra to the lovely wooded shore of Rydal Water, the awesome Hardknott Pass and the towering bulk of the Scafell range, with England's highest mountain.

The evenings will provide the opportunity to receive constructive feedback on your own work. This tour is designed to appeal to photographers of all levels and experience, whether they use digital or film, and any format.



## INFORMATION

**Dates:** 7-10 May 2012

(arrive evening 7th, depart evening 10th)

**Price:** £850pp if booked by Friday 24 February 2012; £895pp if booked after 24 February 2012

**Includes:** Full-board accommodation, with daily packed lunch, transport during tour, tuition from Charlie Waite and Damien Demolder.

**Excludes:** Travel to and from hotel, insurance.

**Final booking:** 9 March 2012

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# AP Testbench

Over the next few pages we present this week's **equipment tests**, **reader questions** and **printers**

## My Funky Camera Need extra comfort? shoulder pad \$7

[www.myfunkycamera.com](http://www.myfunkycamera.com)

**ONE OF** the first parts of the body to feel the strain on a long day's shooting or when heavy kit is being lugged around are the shoulders. Most camera straps do not provide sufficient padding and can dig in. This is where My Funky Camera's 'Need extra comfort?' pad comes in. Its stretchy neoprene design uses a grid of small air pockets on the underside that act like memory foam so they become moulded to the user to provide comfortable padding.

There are a few neoprene straps on the market, but this pad is a little more unusual because it can be used with any strap by simply sliding it through the loop. It is broad enough for straps up to 60mm in width and has a curved design for the contour of the shoulder. Its simplicity means there are no pockets for small accessories, but I did not miss this. In use, the pad definitely extends the 'comfortable' period of shooting, although I found that in hot weather the material can become a little heated and irritate the skin.

The pad is available online for \$7 (around £5) plus \$4 postage.

**Tim Coleman**

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## Hähnel BH-40 ball head £39.99

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**LESS** expensive tripod heads can provide a far from perfect lock for the tripod plate, which may result in minor camera wobble and compromise image sharpness. This is no such problem for an Arca Swiss-type plate, because it is fixed securely via a clamp rather than a lever. It is impressive, then, that Hähnel's BH-40 ball head has this type of plate, given its low price. The head not only offers a knob to tighten the plate, but also a stopper that acts as a back-up should the plate not be fixed correctly.

The head is simple to operate and has few frills. It lacks a spirit level and there is no control for friction of the head. Apart from the plate, there are two knobs: a large one to lock the ball and a smaller one for 360° panning. The BH-40 is compact in design and has a maximum load of 5kg, which makes it an ideal option for any DSLR camera with a standard lens attached. When using an enthusiast DSLR with mid-range zoom lens, there are no issues with drop-off once the head has been locked. The BH-40 goes to prove that a simple design and the right type of lock are all that you need for steady shooting. **Tim Coleman**

**Amateur  
Photographer**  
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**FORTHCOMING TESTS** In the next few weeks AP hopes to run the following equipment through the most rigorous testing procedures in the industry...

### Panasonic Lumix DMC-GX1

As the 'true' replacement for the Lumix DMC-GF1, the GX1 features the same 16-million-pixel sensor as the Lumix DMC-G3 but in a more compact body.

AP 14 January

### Sigma 105mm f/2.8 EX DG OS HSM

The updated 105mm macro lens features optical stabilisation and a more substantial build.

AP 14 January

### Samsung MV800

Samsung's latest compact includes a tilting rear screen to allow easy composition from above, or even in front of, the camera.

AP 14 January

### Nik Efex Pro 4

The latest version of the digital photo filters package, with new algorithms and stacking abilities.

AP 21 January

### Reflecta MidformatScan MF5000

The MF5000 scans 35mm and medium-format film up to 6x12, at a resolution of 3200ppi.

AP 28 January





# Fujifilm FinePix F600EXR

Fuji's latest travel compact camera is feature-packed, and at around £200 it is affordable, too. **Tim Coleman** tests the **FinePix F600EXR**

**THE FUJIFILM** FinePix F600EXR replaces the F550EXR, which we tested in AP 17 September 2011 and gave a four-star rating. The additional features in the F600EXR appear to be fairly limited, and include a refined GPS system – which is about the most detailed I have seen in any camera – and a motion-detection function. The F600EXR is part of Fuji's range of travel compacts, and faces stiff competition from models such as Panasonic's Lumix DMC-TZ20 and Sony's Cyber-shot HX9V.

## FEATURES

At the core of the Fuji FinePix F600EXR is the company's unique EXR CMOS sensor,

which in this model has 16 million pixels. The sensor's pixel arrangement is harnessed through the EXR shooting modes, and includes EXR auto (that recognises any of 54 scene types and 99 shooting patterns), as well as the three dedicated modes of high resolution (HR), high sensitivity and low noise (SN) and dynamic range (DR). Motion detection, which is a new feature to the F600EXR, determines if the subject is moving and adjusts the exposure accordingly.

The 6.4x4.8mm sensor is fairly standard for a compact camera at this level, and results in a 5.41x magnification factor. To achieve the large 24–360mm optical zoom range the Fujinon lens is 4.4–66mm, with a maximum aperture of f/3.5–5.3. At any given setting there are three aperture values available. The zoom range can be extended digitally to 720mm for an effective 30x zoom, although at reduced image quality.

While the EXR auto mode is designed to cover all situations, the camera also offers manual exposure control. What is likely to please discerning photographers is the ability to capture in raw (RAF) format as well as JPEG, which means there is a good level of control both pre and post-capture. MyFinePix Studio for Windows and Raw Converter for Mac software are included.

There are a number of features on the F600EXR to keep the enthusiast photographer happy. Along with PASM control and EXR auto, the shooting-mode dial offers auto, scene position for 18 different scenes, and advanced, which includes motion panorama 360 that produces a seamless panorama from a single sweep, pro focus and pro low light. Film-simulation modes mean that capturing

black & white and high-contrast vivid images is possible, and the camera offers film-simulation bracketing, too.

## BUILD AND HANDLING

Like all good compact cameras designed for travel, the Fuji FinePix F600EXR is very small, measuring just 103.5x62.5x32.6mm, with a minimum depth of 22.9mm. This means the camera slips comfortably into a trouser pocket. A leather-effect strip on the front of the body provides a good grip, and the position of the angled shooting-mode dial next to the thumb is spot on.

The size and layout of the F600EXR are virtually identical to its predecessor, with Fuji sticking to its simple and effective design. On the previous model, the flash automatically popped up on start-up, which was a minor frustration, but on the F600EXR there is a catch to release the pop-up flash.

Changing the focal range is a breeze thanks to the fast and responsive zoom. In cameras of this type I am usually concerned about the telephoto end of the lens, where any movements in handheld shooting are magnified. However, the F600EXR features continuous and shooting stabilisation, with each able to be combined with motion stabilisation. This makes a huge difference when activated, giving an approximate extra 2EV light of shake-free results. Given that 2EV in the ISO sensitivity range can mean the difference between shooting at ISO 200 and ISO 800, this is significant.

Although I like to keep manual control over a camera, there are situations when

## AT A GLANCE

- 16-million-pixel EXR CMOS sensor
- 24–360mm f/3.5–5.3 (15x optical zoom)
- 1/2in (6.4x4.8mm) sensor with 5.41x focal magnification
- GPS with landmark navigator
- Street price around £220



Such a wide focal range makes shooting a number of situations possible, which is good for getting in close to distant subjects



the EXR auto mode is preferable, and one example is in the telephoto settings. Only in this mode is 'advanced anti-blur' available, and this provides even better stabilisation for blur-free results.

As part of its travel-friendly make-up, the F600EXR offers GPS geotagging that displays latitude and longitude information. Furthermore, the name of the place and a landmark can be included. Landmark Navigator acts like a compass, and indicates where and how far landmarks and places of interest are in relation to the current position. This is a great tool to use if you are in an unfamiliar location. In built-up areas such as central London the signal is interrupted at times, so the information is not always available.

GPS is a great tool for the traveller, although it should come with a warning about the battery. A 300-shot battery life is quoted, but this is significantly reduced when GPS is activated. There is the option to deactivate the location search, have it activated when the camera is switched on or have it on permanently. On one occasion I found that the battery was flat when I came to use it, without having taken a single shot, because the feature was permanently on. I found that activating the GPS when I was in a location I wanted to remember, and then deactivating it afterwards, was the best compromise. The tags can be used in conjunction with Google Maps and the included MyFinePix Studio software to plot a route of the journey.

## PERFORMANCE

The very wide construction of the lens results in curvilinear barrel distortion at wider focal lengths below 60mm (effective). Vignetting is obvious at the widest focal length, but is hardly noticeable at any other setting.

Likewise, with the same 16-million-pixel 6.4x4.8mm sensor as the F550EXR, there is no improvement in image quality over its predecessor, which means the F600EXR reaches the 22 marker on our resolution charts at ISO 100 and the 18 marker at ISO 3200. The extended ISO 6400 setting is at a reduced resolution and barely makes an impression on the resolution charts, although this is pretty much in line with the competition.

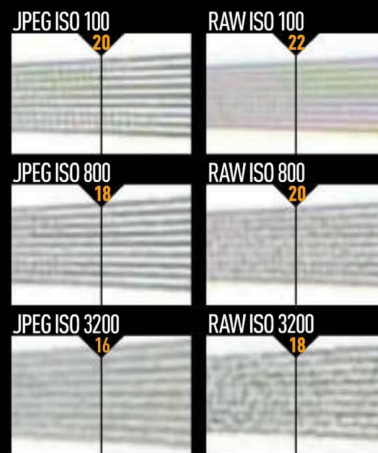
Luminance noise is quite noticeable at ISO 400, and by ISO 3200 it is very obvious, with patches of chroma noise in yellows, greens and magentas. In low-light conditions I found that although using the EXR auto modes gives a marginally more smudged result, the overall final image quality is much improved, with noise significantly reduced.

Despite this, as an all-purpose camera the F600EXR is one of the very best models available. Increasing the zoom range does compromise image quality a little, but a wide zoom is incredibly useful and provides the choice to capture from afar or fit in an entire scene from close up.

Colours are more natural than many compact cameras that give an overly

## RESOLUTION, NOISE & DYNAMIC RANGE

These images show 72ppi (100% on a computer screen) sections of images of a resolution chart, captured with the lens set to its 100mm point. We show the section of the resolution chart where the camera starts to fail to reproduce the lines separately. The higher the number visible in these images, the better the camera's detail resolution is at the specified sensitivity setting.



## Facts & figures

RRP	£299.99
Sensor	1/2in (6.4x4.8mm), 16-million-pixel, EXR CMOS sensor
Output size	4608x3456 pixels
Lens	15x zoom Fujinon lens, 24-360mm (effective) f/3.5-5.3
File format	Raw (RAF), JPEG compression: Fine/Standard
Sensitivity	ISO 100-3200 (extended to ISO 6400 and 12,800)
Shutter speeds	8-1/2000sec
Metering system	256-zone multi-segment, spot, average
White balance	Auto WB, 7 presets including underwater, custom
Exposure modes	PASM, EXR (auto, SN, HR and DR), advanced (pro low light, pro focus, motion panorama 360°, 18 scenes and auto)
Focus	Single, continuous
AF modes	Centre, multi, tracking
LCD monitor	3in LCD with 460,000 dots
Storage media	SDHC, SDXC, SD
Power	Rechargeable Li-Ion NP50 (300 shots)
Weight	220g (including card and battery)
Dimensions	103.5x62.5x32.6mm



In this low-light scene, using the dedicated EXR setting proved better than controlling the exposure manually



Manual ISO 3200

EXR SN mode

Fujifilm, Unit 10A, St Martins Business Centre, St Martins Way, Bedfordshire MK42 0LF. Tel: 01234 572 000. [www.fujifilm.co.uk](http://www.fujifilm.co.uk)

vivid colour rendition, although there is the option here to add some vibrancy using 'Velvia' in the film simulation.

Although using EXR auto mode doesn't allow for exposure control, it is a very handy auto system. I found I could rely on it on many occasions to produce a good end result, regardless of what aperture was selected. In fact, sometimes it was preferable to making manual adjustments.

The EXR sensor has a unique method of processing information, and by combining neighbouring pixels the high resolution/high sensitivity (SN) and pro low-light settings deal with chroma noise that is more evident than when using the manual control, with a resulting smudging of detail. **AP**

## Verdict



**THE FUJIFILM** FinePix F600EXR is a great all-purpose camera, packed with useful features and shooting modes for travel photographers. There is little reason for F550EXR owners to upgrade to the F600EXR, though, and those considering the two may want to opt for the F550EXR, which is around £20 cheaper. However, this is a great compact travel camera and will not disappoint.

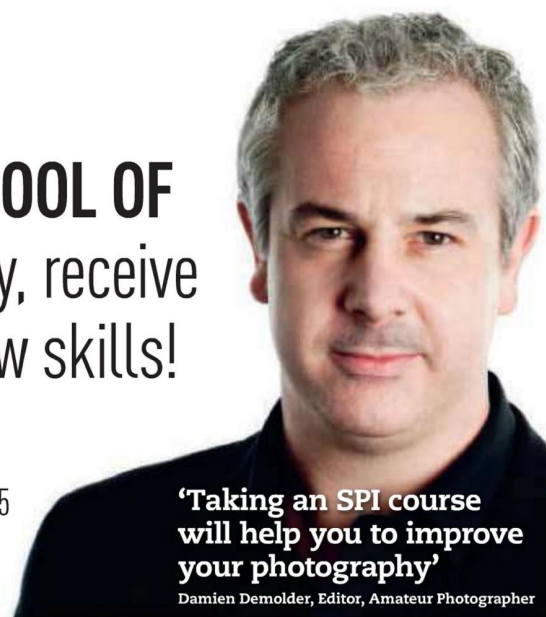


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- Use the selection tools to adjust your images
- Remove dust and scratches from precious photos
- Banish red-eye for ever
- Sharpen your images
- Create an archive to safeguard valuable pictures



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- Shooting wildlife and nature
- Using colour
- Sports and action shots
- Choosing the right lens



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# AP guide to... Window-light portraits

## Part one

In the first of a four-part series, **Richard Sibley** explains that you don't need expensive lights and studio equipment to take stunning portraits – all you need is a camera and a window



**MOST** people associate portrait photography with large white studios and expensive lighting. After all, the countless images of people's faces that we see on the covers of magazines have all been created in this environment. However, you don't need banks of lights and a sterile studio environment to create a striking portrait. Natural light from a window can be as versatile as any softbox or spotlight – you just need to know how to use it to best effect.

Over the next four months we will cover everything you need to know about taking window-light portraits. We will start with the basics of choosing a location, and learning how the size and shape of a window, and even the time of day, can affect the light. We will then move on to how metering and subject placement can completely change the look of a portrait, to using reflectors, diffusers and blinds to shape the window light. Finally, we will look at editing this type of portrait, from converting it to black & white, to sharpening, dodging and burning.

By the end of the series you will have all the knowledge and skills that you need to use window light creatively to take striking portraits of friends and family. To start with, though, you need to find the right location.

### CHOOSING A LOCATION

There may be occasions when you don't have a choice about where and when you can shoot a window-lit portrait. If you see an opportunity to take an impromptu portrait, just shoot away. Look for a suitable angle, meter appropriately and then fire the shutter.

However, if you do have the time, try to think about your location before you take a photograph. Look around the room and see how the light falls through the windows. In future issues we will look at how curtains, blinds and even different types of glass can alter the effects of light, but for now, just be aware that the size, shape and direction of a window will dictate how the light hits the subject.

Take a good look at the surroundings. Try to identify any bright walls opposite a window that will bounce light back onto your subject's face to fill in shadows, or any dark walls that will reflect little or no light, possibly creating very hard shadows.

Some rooms may have features that will be perfect for inclusion in your portrait as a way to frame the subject. However, depending on how you are trying to portray your subject, you may wish to avoid a cluttered background. If this is the case, look for plain backgrounds or areas that aren't lit by window light that will be rendered very dark in the final image. Even if you can't find a suitably plain background, it may be possible to blur or keep distracting elements out of the image by using a shallow depth of field or by using a longer-focal-length lens, but we will discuss this further in part two next month.

While a lounge, dining room or hallway is an obvious choice of location for a portrait



shot, there are other rooms in a house that offer very flattering light. Often the white walls and tiled surfaces used in kitchens and bathrooms bounce a lot of window light around the room, as do bathroom mirrors. The slightly opaque glass used in bathroom windows also means that the light entering the room is soft, and as the room acts as a giant reflector, shadows are softened. This is useful if you wish to create a high-key portrait. The term 'high key' refers to an image that is lit relatively evenly from all angles, producing virtually no shadows.

If you want to take a portrait in, say, a bathroom or kitchen, but don't want to include its cluttered or distracting background in your shot, try creating

your own background. Use a roll of background paper, or just tape a few sheets of paper or a sheet to the wall. We will look at this in a later issue, but start thinking about whether you want to keep your background to help tell a story or whether you want to disguise it so it isn't distracting.

### WINDOW LIGHT

When taking window-light portraits, the size of the window is one of the most important factors, and just like using differently sized lights or softboxes, different windows produce different effects.

A large floor-to-ceiling window or a sliding patio door will obviously let far more light into a room than a small window that may be found in a bathroom or hallway.

**A full-length south-facing window uses the late-afternoon sun to provide an even light across the entire height of the subject**



Larger windows enable full- and mid-length portraits to be evenly lit. Think of a large window as being like a large softbox, which studio photographers use to produce a large, soft and even light. Like a softbox, the closer you are to the window, the softer the light will be. A large window will also allow more light into the room that can then be reflected back onto the subject. If a window faces a white or light-coloured wall, some of this light will be reflected back, especially at certain times of day when the sun is low in the sky.

Small windows produce a narrow beam of light, allowing the photographer to isolate the particular parts of the subject he wishes to light, and making sure that a background can be concealed in darkness. A small east- or west-facing window can be used effectively to create a spotlight or bare bulb effect as the sun pours through. Alternatively, a small north- or south-facing window will have a softbox-type effect. This can be used effectively to produce a soft directional light source that can be particularly flattering for female portraits.

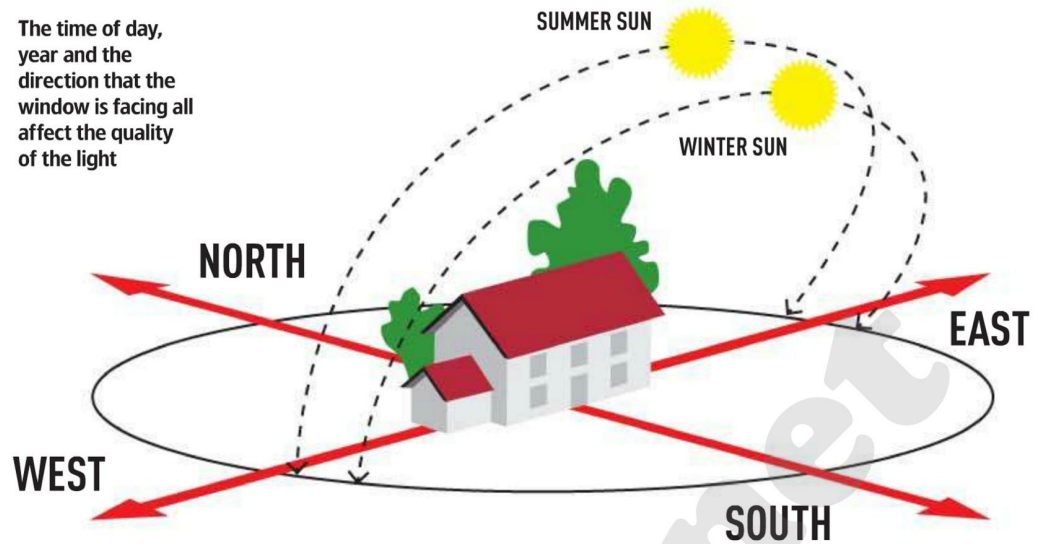
Bay windows offer a completely different type of light, as the light comes from three different directions forming almost a semi-circle around the subject. Depending on how the subject and camera are positioned, this can produce portraits with very even light wrapping around the subject and very few shadows.

If you have a number of different sized and shaped windows, consider how they will affect the light entering the room and how that light will fall on your subject.

### TIME OF DAY, DIRECTION AND WEATHER

As window light is produced by the sun, the angle of the sun in the sky will affect the

**The time of day, year and the direction that the window is facing all affect the quality of the light**



### TOP TIPS

- Think about the type of effect you want, and choose the type of window and the time of day accordingly
- The further the subject is from the window, the more defined any shadows will be
- A north-facing room will have soft and even light
- Don't be afraid to take photographs in an unconventional room, such as a kitchen or bathroom

appearance of the light. When the sun is low during early morning and late evening, light will come almost sideways straight through the window, creating strong directional side light. For some subjects this will work very well, but hard light is not always the most flattering for a subject's skin. Make sure you consider this when trying to make someone look their best.

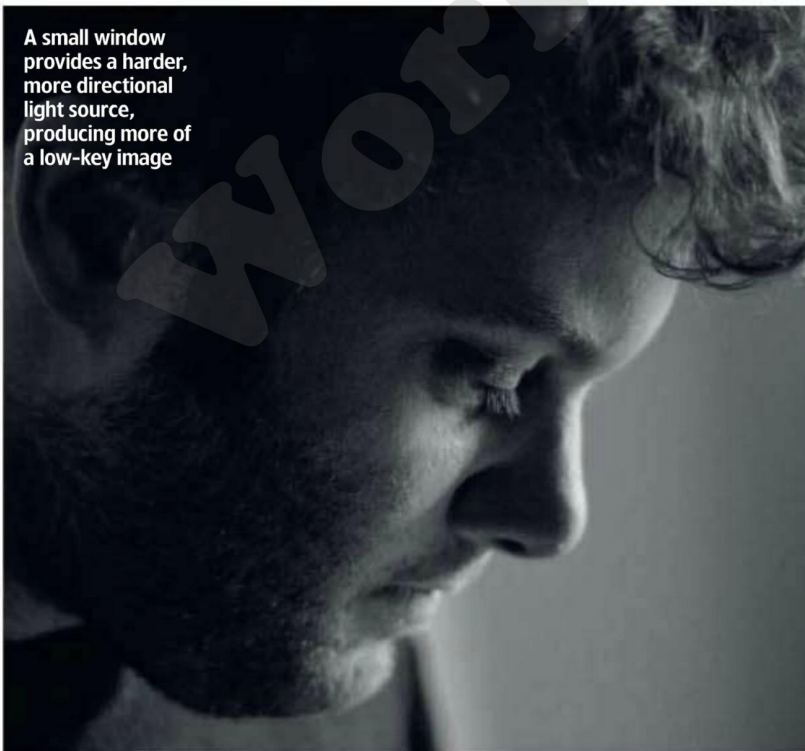
Where there is strong light, contrast in an image will also be strong. Depending on the style you are trying to achieve, some sort of reflector will be required to lighten the darkest of shadows and put detail back into a face. We will look in detail at reflectors in part three, but you don't need to use a specific photographic reflector – white card, aluminium foil, white sheets or a white wall can all work just as well.

When working in a studio, a softbox pointing at around 45° down onto the

subject is often used to light a subject, so if he or she sits slightly away from a window from mid to late morning it can create a similar effect. In the middle of the day the sun is high in the sky, and when it is directly above and out of the line of sight of a window this is one of the best times to shoot. The light will be very bright, but as it won't be coming directly from the sun, rather from the bright sky and land outside, it will not be as harsh as it comes through a window. Many portrait painters, such as Rembrandt, preferred to light their subjects using a north-facing window because of the soft light that such a window provides. However, as the sunlight isn't coming directly into the room, a longer exposure time, higher sensitivity or larger aperture may be required to produce a correct exposure.

An east-facing window will catch

A small window provides a harder, more directional light source, producing more of a low-key image



Lit with morning light from a bay window and a skylight window above, the light is flattering, produce a soft, even effect







the first rays of sunlight in the morning, making it a good option for dramatic morning shots. At this time, a west-facing window won't be as bright, and will provide light that is softer, and of a different colour.

When photographing at sunrise or sunset, the sunlight coming into a room will be very warm light. However, the light from the opposite side of the room will be far cooler. This is something to consider if you are shooting in colour as you may wish to correct it or use it as an effect.

We know that the sun doesn't always shine, and in the UK the chances are you'll be photographing on a day when the sky is cloudy. This isn't a problem, though, because light will still pour through the window – it's just that it will already be diffused by the clouds to create an even light with lower contrast. This kind of light will be less dramatic, but the lower contrast can make it a little easier to work with, particularly if your camera has a lower dynamic range that may cause burnt-out highlights or completely black areas in high-contrast lighting conditions.

### DISTANCE FROM THE WINDOW

As with any light, the closer it is to the subject, the softer the shadows that will fall on the subject's skin. Windows are no exception. If the subject is standing right next to a north-facing window, they will be lit with a large amount of soft light, again much

like standing next to a large softbox. The further the subject is from the window, the harsher the shadows will become.

The positioning of your subject should be relative to the size of the soft light source. For example, standing three metres away from a floor-to-ceiling, north-facing window will produce softer shadows than standing the same distance away from a tiny 30x45cm window. Of course, if your subject is positioned in direct sunlight, the light will be very hard, so try moving your subject out of the direct path of light – the room should



**Above: The closer the subject is to the window, the softer the light and shadows**

**Below left: Here the subject is a few metres from the window, so that shadows are very hard and defined**

still be bright enough to light the subject, but the light will be softer.

### SUMMARY

As you can see, there is more to taking window-lit portraits than placing your subject next to a window. The size and direction of the window are an important factor, as is the room itself and how it will reflect the light around it. So before you pose your subject in a set position, take a walk around the house or venue and see how the light looks in different locations. **AP**

## COMING UP...

**IN PART** two of AP's guide to window-light portraits (AP 4 February), we explain how to correctly spot meter for a scene, as well as discuss which focal lengths and apertures to use in different situations.

In part three, we will look at how to position the subject in relation to the light for different effects, and how reflectors, blinds and curtains can all be used to shape the light, position your subject for different effects.

Finally, in part four, we will examine how you can edit your images to produce the most flattering results when converting to black & white, as well as the removal of colour casts and cropping portrait images to make them as striking as possible.



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Canon EF 28-70mm f2.8 L +hood +box...exc + £999.00  
Canon EF 70-200mm f2.8 L IF MkII + case + hood...mint - £1,599.00

### CANON EF 28-300mm f3.5-5.6 L IS +hood +case

mint - £1,899.00  
Canon EF 70-200mm f2.8 L +hood...exc + £999.00  
Canon EF 70-200mm f2.8 L IS +hood...exc + £1,249.00  
Canon EF 100-400mm f4.5-5.6 L IS +hood +filter...mint - £1,099.00

### CANON EF 1.4x Extender mkII

exc + £199.00  
Canon EF 1.4x Extender mkIII...mint - £229.00  
Canon EF 1.4x Extender mkIII +case...mint - £399.00  
Canon EF 2x Extender mkII...exc + £179.00  
Canon EF 2x Extender mkIII...mint - £199.00  
Canon EF 2x Extender mkIII +case +box...mint - £229.00  
Canon EF 2x Extender mkIII +case...mint - £399.00

### CANON EF/FS LENSES

Canon EF 20mm f2.8...exc + £329.00  
Canon EF 28mm f2.8...exc + £139.00  
Canon EF 50mm f1.8 mkI...mint - £249.00  
Canon EF 100mm f2.8 Macro mkI...mint - £299.00  
Canon EF 100mm f2.8 Macro USM...mint - £399.00  
Canon EF 28-70mm f4.5-5.6 +filter...mint - £119.00  
Canon EF 28-135mm f3.5-5.6 IS...mint - £239.00  
Canon EF 28-200mm f3.5-5.6 USM...mint - £299.00  
Canon EF 35-80mm f4-5.6 USM...exc + £39.00  
Canon EF 35-135mm f4.5-5.6 +CP/L filter...exc + £129.00  
Canon EF 70-300mm f4-5.6 DO +hood...exc + £749.00  
Canon EF 80-200mm f4-5.6 +filter...exc + £99.00  
Canon EF 90-300mm f4.5-5.6 USM +filter...exc + £119.00  
Canon EF 80-300mm f4.5-5.6 USM +box...mint - £319.00  
Canon EF 10-22mm f3.5-4.5 +filter +box...mint - £549.00  
Canon EF 11-85mm f4.5-5.6 +filter...mint - £299.00  
Canon EF 18-55mm f3.5-5.6 II...mint - £99.00

### SIGMA AF LENSES (CANON EOS FIT)

Sigma AF 105mm f2.8 EX DG MACRO +case +box...mint - £329.00  
Sigma AF 18-200mm f3.5-6.3 +filter...mint - £149.00  
Sigma AF 24-70mm f2.8...exc + £99.00  
Sigma AF 28-70mm f2.8 UC...exc + £99.00  
Sigma AF 70-200mm EX 1:8 DG OS +hood +case +box...mint - £249.00  
Sigma AF 100-300mm APO DG H HSM +filter +hood...exc + £599.00

### INDEPENDENT EOS SYSTEM

Independent BGES battery grip (4500, 10000)...mint - £99.00  
Cosina 19-35mm f3.5-4.5 +hood...exc + £139.00  
Surpak Power Zoom S200AF...mint - £39.00  
Surpak Power Zoom F242F (TTL Film)...exc + £49.00  
Tamron AF 18-270mm f3.5-6.3 Di II VR +filter...mint - £399.00  
Teleplus CAG DFX Pro 300 1.4x Converter...mint - £199.00  
Teleplus CAG DFX Pro 300 2x Converter...mint - £199.00

### EOS FILM ACCESSORIES

Canon 200 E Speedlite +case...exc + £29.00  
Canon 430 E Speedlite...exc + £59.00  
Canon ML3 Ring Flash +box...mint - £95.00  
Canon HAS-2 TTL Hot Shoe Adaptor...exc + £35.00  
Canon Off Camera Shoe Adaptor...exc + £12.00

### Canon BP-300 Battery Pack/Grip (EOS 30)

mint - £35.00  
Canon BP-5B Battery Pack/Grip (EOS 50, 55) As New £20.00  
Canon BP-5B Battery Pack/Grip (EOS 50, 55) ...exc + £20.00  
Canon GR-50 Grip L +box (EOS 700)...mint - £10.00

### Canon GR20 grip +box

exc + £10.00  
Canon RS-80-E3 Remote EOS 1, 3, IV...exc + £17.00  
Canon Power Booster PB2...exc + £59.00

### AF TELE CONVERTERS (CANON EOS FIT)

Sigma AF 1.4x (not EFS)...exc + £29.00

### CANON FD SYSTEM

Canon AE1 +50mm f1.8 +case...exc + £249.00

### CANON FD LENS SYSTEM

Canon FD 28mm f2.8 +case...mint - £79.00  
Canon FD 50mm f1.8...exc + £40.00  
Canon FD 55mm f1.8...exc + £199.00  
Canon FD 100mm f2.8 SSC +case...exc + £199.00  
Canon FD 135mm f3.5 S.C. +case...exc + £89.00  
Canon FD 200mm f2.8 +box...mint - £149.00  
Canon FD 200mm f4...exc + £59.00  
Canon FD 1.4x extender...exc + £59.00  
Canon FD 2x extender...exc + £45.00  
Canon FD 2x extender +case +box...mint - £99.00

### CANON FD ZOOM LENS SYSTEM

Canon FD 35-105mm f3.5 +box...exc + £149.00  
Canon FD 50-300mm f4.5 L +hood +case...mint - £99.00  
Canon FD 70-210mm H...mint - £39.00  
Canon FD 100-300mm f5.6...mint - £149.00

### CANON FD MACRO LENS SYSTEM

Canon FD 50mm f3.5 Macro +tube...exc + £99.00  
Canon FD 50mm f3.5 Macro...mint - £99.00

### INDEPENDENT FD

Optomax 100-300mm f5.6...exc + £45.00  
Promura 500mm f8 +hood +case 1 mount...exc + £99.00  
Tamron 28mm f3.5 Adapt2...exc + £49.00  
Teleplus MC7 2x Extender...exc + £45.00

### Tokina SD 35-70mm f3.5-4.8 +filter

£45.00

### CANON FD ACCESSORIES

Canon Speedlite 011A...£49.00  
Canon Speedlite 177A...£25.00  
Canon Speedlite 188A...mint - £29.00  
Canon Speedlite 198A...£25.00  
Canon Speedlite 290T...exc + £29.00  
Canon Speedlite 300T...exc + £29.00  
Canon Power Winder A2...As New £79.00

### Canon Winder A2

exc + £39.00  
Canon Power Winder A...As New £99.00  
Canon AE Power Winder F...exc + £99.00  
Canon FM Motor Drive...exc + £149.00  
Canon FM Focus Screen AE, AI, PL, PE, PL EACH £69.00  
Canon Case-S (F1N)...£49.00  
Canon V62 hood lens...£35.00

### Canon B1-52B Lens Hood

used £35.00  
Canon BW-52B Lens Hood...used £39.00  
Canon Cord 300 Flash Cord +box...£39.00  
Canon E1000 Extension Cord +box...£35.00  
Canon 34mm Drop in Gelatine Holder +box...£39.00  
Canon Meter Booster for FT +case +box...£90.00  
Canon Interval Timer for FT winder +box...exc + £129.00  
Canon Photomicro Unit F (Microscope) +box...£99.00

### CANON FL LENS SYSTEM

Canon FL 35mm f2.5...exc + £49.00  
Canon FL Bellows +Slide Duplicator...mint - £79.00

### NIKON DIGITAL SYSTEM

Nikon D300S 12.3mp Body Only +box...exc + £949.00  
Nikon D40 6mp +18-55 f3.5-5.6G II...mint - £249.00  
Nikon D7000 18-55 f3.5-5.6G II...exc + £699.00

### NIKON 35MM FILM CAMERAS

Nikon EM...exc + £45.00  
Nikon F100 AF...exc + £129.00  
Nikon N70 +28-80mm f3.5-5.6D...exc + £99.00  
Nikon N90S...exc + £79.00

### NIKON 35MM FILM SYSTEM

Nikon S2-24 flash...exc + £99.00  
Nikon S2-27 flash...mint - £99.00  
Nikon AS-17 TTL/ISO module (F3)...exc + £49.00  
Nikon BR-3 Macro Adaptor Ring...exc + £40.00  
Nikon Extension Tube PK 12mm...exc + £59.00

### NIKON AF LENSES

Nikkor AF 24mm f2.8 +filter...exc + £270.00  
Nikkor AF 28mm f1.8 +filter +hood +box...mint - £269.00  
Nikkor AF 35-105mm f3.5-4.5D ED +hood...exc + £199.00

### NIKON MF LENSES

Nikkor 28mm f2.8 Series E AIS...exc + £119.00  
Nikkor 35mm f2.8 AIS...exc + £199.00  
Nikkor 50mm f1.8 Series E AIS...exc + £89.00  
Nikkor 50mm f1.8 AIS +filter...mint - £99.00  
Nikkor 50mm f1.8 AIS +box...exc + £49.00  
Nikkor 105mm f2.5 AI...exc + £160.00  
Nikkor-P 105mm f2.5 (pre-AI)...exc + £149.00

### INDEPENDENT NIKON

Teleplus MC-7 2x converter AI...mint - £75.00  
Teleplus MC-7 2x converter AFs...mint - £49.00  
Canon MR20 Reflexflash (50mm filter fit)...mint - £59.00  
Cosina 28-50mm f3.5-5.6 AIS...mint - £39.00  
Sigma 15-30mm IF DG +hood...mint - £249.00  
Sigma 50-200mm HSM +box AF...mint - £99.00

### NIKON HARD LENS CASES

Nikon CL-43A (AF80-200)...£35.00

### NIKON ACCESSORIES (NEW)

Nikon 82mm 1.37 (UV) filter...NEW £75.00  
Nikon HN-23 62mm screw-in Hood (80mm-200mm H, AF 85mm f1.8)...NEW £32.99  
Nikon MC-22 Remote Cord (10 pin to Banana plugs)...NEW £57.99

### OLYMPUS SYSTEM

Olympus OM1 +50mm f1.8 +filter +case...mint - £299.00  
Olympus OM2n +50mm f1.8 +case...mint - £249.00  
Olympus OM winder 2...exc + £49.00  
Olympus Vantamagrip +case +box...mint - £60.00  
Olympus Zuiko 28mm f2.8...mint - £99.00  
Olympus Zuiko 28mm f3.5...exc + £59.00  
Olympus Zuiko 135mm f3.5 +case...mint - £99.00  
Olympus Zuiko 28-48mm H...exc + £99.00  
Olympus Zuiko 35-70mm H...exc + £70.00  
Olympus Zuiko 75-150mm H...exc + £59.00  
Olympus Auto 310 shoe 2...£35.00  
Olympus 220 Reflex +box...mint - £99.00

### INDEPENDENT OLYMPUS

Sigma 28mm f2.8...mint - £49.00  
Tamron 80-210mm f3.8-4...mint - £49.00

### Tokina 70-210mm f4-5.6

exc + £25.00  
Vivitar 28-200mm f3.5-5.3...exc + £39.00

### EXPOSURE METERS

Minolta Auto Meter IVF +book +case...exc + £149.00  
Weston Master V +cone +case...exc + £99.00  
Weston Euro master +case...mint - £99.00  
Shepherd V6-38 Flash Meter +case...exc + £99.00

### PENTAX PK FILM CAMERAS

Pentax M230 +40-200mm f4-7.6 SMC...exc + £79.00  
Pentax ME Super +50mm f1.7 +case...exc + £149.00  
Pentax P30...exc + £60.00  
Pentax Program A...exc + £99.00  
Pentax Winder...exc + £20.00  
Pentax M Thru H +case...mint - £499.00  
Pentax-A 28mm f2.8 +filter...mint - £99.00  
Pentax-M 50mm f1.7...mint - £75.00  
Pentax-M 100mm f2.8...exc + £95.00  
Pentax-M SMC 28-50mm f3.5-4.5 +filter...exc + £99.00  
Pentax-A SMC 70-100mm f4 +filter...exc + £125.00  
Pentax T5 2x converter...exc + £99.00  
Pentax-M Bellows...exc + £149.00  
Pentax Long Cable Release...exc + £40.00

### INDEPENDENT PK

Ricoh 50mm f2 +box (PK)...as new £35.00

### PENTAX 110 CAMERAS

Pentax 50mm f2.8 for 110...as seen £25.00

### MAZ SYSTEM

Pentax CDS Meter +case...exc + £49.00  
Pentax Super-Takumar 28mm f3.5 +filter...exc + £29.00  
Pentax Super-Takumar 55mm f2 +filter...exc + £49.00  
Pentax Takumar 105mm f2.8 +hood...exc + £199.00  
Pentax Takumar 135mm f3.5...exc + £99.00  
Pentax Super-Takumar 50mm H +hood...exc + £119.00  
Pentax Takumar 200mm H +hood...exc + £99.00  
Praktica MTL3 +case +box...exc + £49.00

### FOUR THIRDS DIGITAL SYSTEM

Olympus 50-200mm f2.8-3.5 +case +hood +filter...mint - £499.00

### MINOLTA SYSTEM (35MM FILM)

Minolta Dynaflex 404 SI Autoload +Tamron 28-70...exc + £49.00

### MIRANDA SYSTEM (35MM FILM)

Miranda Extension Tubes (screw) +box...exc + £39.00  
Miranda Focall Bellows...mint - £59.00  
Miranda Chest Level Finder Type 1 +box...exc + £40.00

### SLR CAMERAS (35MM FILM)

Tamron Adaptol for TOPCON +box...exc + £20.00

### RANGEFINDER CAMERAS (35MM FILM)

Olympus 35 RD 40mm f1.7...mint - £299.00

### COMPACT CAMERAS (35MM FILM)

Contax T 35mm f2.8 +flash +case +box +hood...mint - £449.00  
Rollei 35 Classic 12.8 40mm Sonnar +flash +case +hood...exc + £199.00  
Olympus XA2 f3.5...exc + £95.00  
Olympus Pen 28mm f3.5...exc + £95.00  
Olympus XA2 f3.5...exc + £95.00  
Pentax Espio 140M 38-140mm +case...mint - £99.00  
Pentax Espio 35 35-70mm +case...exc + £99.00  
Tamronang 115SD 38mm f3.5...mint - £49.00  
Samsung LEICA 140S 38mm f3.5...exc + £99.00  
Sea & Sea Model Marine UNDERWATER...exc + £99.00

### 8MM FILM

Canon Auto Zoom 814 Super 8 +case +hood...exc + £249.00  
Canon Zoom 318 Super 8 +case +hood...exc + £179.00

### 16MM FILM

Minolta 16 f2.8 +case (requires cassette)...as seen £95.00

### HASSELBLAD 6X6 SYSTEM

Hasselblad Disatagon T Star 40mm H4 black...exc + £599.00  
Hasselblad Quick Release Plate...exc + £40.00

### MANIYA 645 - 6X6 - 6X9

Maniia 645 +18-55mm f3.5-5.6 +case...exc + £375.00  
Maniia 645 Pro +80mm f1.9 +AE prism finder +right angle viewfinder...mint - £799.00  
Maniia C330 F +105mm f3.5 DS...exc + £495.00  
Maniia Sekor 55mm f4.5 (C330 mount)...mint - £495.00

### ROLLEI 6X6

Rollei 6003 Professional +80mm f2.8 Planar HFT +meter head +box...mint - £799.00

### BRONICA 6X6 SYSTEM

Bronica SQ-AI film back SQI boxed...mint - £79.00

### 6X6 6X7 CAMERAS (120 FILM)

Pentax 6x7 (mkI) +AE Prism +105mm f2.4 +45mm H +200mm H +Rigid Magnifying Finder +Wooden Grip (left) +filter +hood +box...mint - £2,999.00  
Voigtländer Perkeo 175mm f4.5...as seen £39.00  
Agfa Solista 85mm f4.5 Agnar...as seen £39.00

### CONTAX G1 & G2

Contax G2 Body +45mm f2.1 planar +filter +box...exc + £699.00  
Contax G Zeiss 50mm f2.8 Sonnar T +filter +case...mint - £249.00  
Contax G Zeiss 35-70mm f3.5-5.6 Vario Sonnar T +case...mint - £349.00  
Contax G TLA 28mm f2.8 +filter +case...mint - £199.00

### CONTAX / YASHICA SLR FIT

Contax 28mm f2.8 Mk II +filter...exc + £265.00  
Yashica ML 28mm f2.8...exc + £60.00  
Yashica ML 35mm f2.8...exc + £50.00  
Yashica ML 135mm f2.8 C...exc + £40.00  
Yashica ML 200mm H +filter...as seen £50.00



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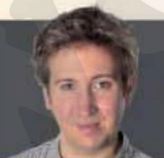




# Nikon 1 J1

The entry-level J1 compact system camera has fewer features than its V1 sibling, but is around £270 cheaper. We find out whether the J1 is, pound for pound, the better camera

**Mat Gallagher**  
Deputy Editor



**THE NEW** Nikon 1 system comprises two models in the form of the V1, which we reviewed in AP 12 November 2011, and the entry-level J1. While the J1 has many of the same features as the V1, it has been slimmed down slightly by removing the accessory port and the electronic viewfinder. Subsequently, it demands a lesser price – currently by around £270. This brings the J1 into competition with the likes of the Sony NEX-C3, Panasonic Lumix DMC-GF3 and Olympus E-PL3. However, with a smaller sensor that has less resolving power, the J1 and V1 have to rely on additional features and the benefits of smaller lenses to compete with these models.

While the V1 doesn't seem to have fully satisfied the demands of many advanced Nikon users – because what they really wanted was something closer to Sony's new NEX-7 – as a budget model, the J1 can be expected to cater for simpler control and may be more appealing.

## FEATURES

Like the V1, the J1 uses a 10.1-million-pixel CMOS sensor, which is 13.2x8.8mm in size or 116mm<sup>2</sup> in area, making it roughly half the size of a four thirds sensor and around one-third the size of an APS-C unit. A 3872x2592-pixel file produces a 12.9x6.4in print at 300ppi or an A3 print at a more than acceptable 220ppi. The J1 may struggle with anything above this resolution, but those demanding regular A2+ prints are not this camera's target audience. Images can be saved in Nikon's NEF 12-bit compressed raw format in addition to, and instead of, JPEG files. The processor is the

## AT A GLANCE

- 10.1-million-pixel CMOS sensor
- ISO 100-6400
- 3in, 460,000-dot LCD
- Phase and contrast-detection AF
- Electronic shutter
- Max frame rate 60fps at full resolution
- Full HD movie
- Street price £450 with 10-30mm lens

new Expeed 3 model, which Nikon claims currently outperforms even professional DSLR processors by being able to process 600 million pixels a second or 60 10-million-pixel images a second (60fps). The processor also allows an ISO range of 100-3200, with an expanded Hi setting equivalent to ISO 6400. Video capture is available in full 1080p HD at 30fps or 60fps interlaced using MPEG-4 format and stereo sound from the dual microphones built into the body.

The J1 features a built-in flash unit with a low guide number of 5m @ ISO 100. This is one advantage the J1 has over the V1, as the V1 doesn't come with a flashgun. However, the V1 does feature an accessory port, allowing the SB-N5 Speedlight flashgun (GN 8.5m @ ISO 100) to be attached, plus other accessories, such as a GPS unit, microphone and hotshoe adapter for a wider range of options. As the J1 lacks the V1's electronic viewfinder, the rear screen has to be used for composition, although this isn't a huge problem for such a small camera. The shutter of the J1 is purely electronic, as opposed to the electronic and mechanical shutter of the V1. The lack of mechanical shutter reduces the maximum flash sync to 1/60sec, but it is difficult to determine any other real difference.

The J1 features a smaller battery than the V1, which is rated as 1,200mAh as opposed to the V1's 1,900mAh. This reduces the shot life of the camera from a potential 400 on the V1 to a rather limited 230 on the J1. With heavy use of the multi-shot functions, the J1's shot life can be reduced even further, so a spare battery is recommended for a day's shooting.

The new Nikon 1 lens mount has a much smaller diameter than the F mount, and with a





↗ focal magnification of 2.7x much shorter focal lengths have to be used to achieve a standard 35mm equivalent field of view. The diagonal of the new sensor is a mere 15.86mm compared to the 42-43mm of a full-frame sensor. This results in some very compact lenses, including a 10mm f/2.8 pancake (27mm equivalent), 10-30mm f/3.5-5.6 (27-81mm equivalent) and 30-110mm f/3.8-5.6 (81-297mm equivalent). Nikon's vibration reduction remains in the lens for optical stabilisation on all but the 10mm pancake, although it is controlled from the camera's menu with a choice of normal, active or off. A glass dust shield prevents particles settling on the sensor.

As the J1 is a mirrorless design, both the metering and focusing are obtained from the image sensor. The TTL metering system features matrix, centreweighted and spot options with  $\pm 3\text{EV}$  exposure compensation in  $\frac{1}{3}\text{EV}$  steps. The focusing system is unique in that it employs both contrast-detection and phase-detection systems from the sensor. Having the phase-detection array built into the image sensor avoids the need for a secondary sensor, as used in DSLRs and non-TTL versions on some compact cameras. The J1's system should allow a faster operation than those that are purely contrast-based. There isn't the option to swap between phase-detection and contrast systems, as the camera bases the decision on the scene and lighting conditions. However, the full area of the screen can be selected for single focus (a total of 135 points). Auto area selection, with 41-points, and subject-tracking modes are also available.

Although the J1 features manual, aperture and shutter-priority settings, its mode dial has just three image settings, comprising a standard still image, smart photo selector and motion snapshot, plus a video mode. Still image allows selection of program, shutter, aperture and manual modes from the menu, along with most additional shooting controls. The smart photo selector works in auto exposure, although it still allows a choice of raw and JPEG formats. With a single shutter press the camera takes 20 images at full resolution and then saves the five that it considers to be the best, based on exposure, sharpness and face detection. This works well, although it soon fills a memory card. Motion snapshot shoots in 16:9 format (3840x2160) and is JPEG only, offering a full choice of ISO, white balance, metering and exposure mode, including an advanced auto mode called scene auto selector. However, instead of simply taking a still image, the camera also records a short slow-motion video clip that is combined with the image and precedes it on playback with the addition of a choice of a soothing sound clip. This is a novel feature on the rear of the camera, but as we stated in the V1 review, it has little practical application once downloaded.

6/10

## Facts & figures



RRP	£549.99 (with 10-30mm lens)
Sensor	10.1-million pixel, 13.2x8.8mm (2.7x crop factor)
Output size	3872x2592 pixels
Lens mount	Nikon 1
Focal length mag	2.7x
Shutter speeds	30-1/16,000sec
ISO	100-3200 (6400 expanded)
Exposure modes	Still (PASM, auto scene selector), motion snapshot, best-shot selector, movie
Metering	TTL multi-segment, spot, centre
White balance	Auto, 6 presets, custom
LCD	3in, 460,000 dot
AF modes	135-area, face detection, AF tracking, select, spot
Memory card	SD, SDHC, SDXC
Power	Rechargeable Li-Ion EN-EL20
Weight	277g (with battery and card) 234g (body only)
Dimensions	106x61x29.8mm

**NIKON**, 380 Richmond Road, Kingston upon Thames, Surrey KT2 5PR. Tel: 0330 123 0932. [www.nikon.co.uk](http://www.nikon.co.uk)

Skin tones are natural while the AWB does a good job at providing neutral tones

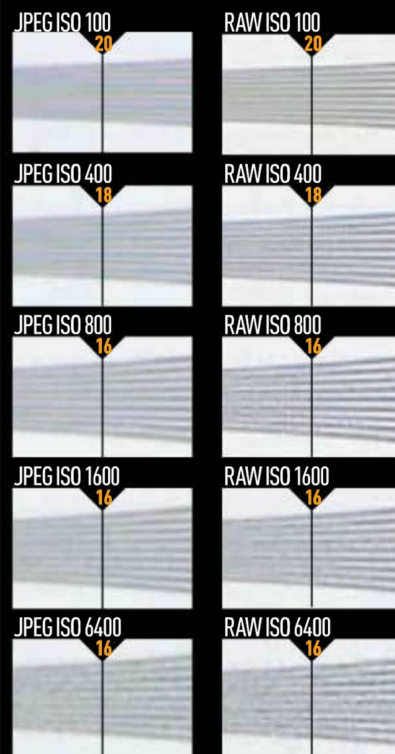


### NIKON 1 J1 AND V1 COMPARISON

Model	J1	V1
Body	Aluminium alloy	Magnesium alloy
Dimensions	106x61x29.8mm	113x76x43.5mm
Weight	277g	383g
Accessory port	No	Yes
Built-in flash	Yes	No
Viewfinder	No	1.44m-dot EVF
Screen	3in, 460,000 dots	3in, 921,000 dots
Battery life	230 shots	350-400 shots

## RESOLUTION, NOISE & DYNAMIC RANGE

These images show 72ppi (100% on a computer screen) sections of images of a resolution chart, captured using a 30-110mm lens at an equivalent of 90mm. We show the section of the resolution chart where the camera starts to fail to reproduce the lines separately. The higher the number visible in these images, the better the camera's detail resolution at the specified sensitivity setting.



## BUILD AND HANDLING

The J1 is a very good-looking camera, perhaps even more so than the V1, and is noticeably smaller. Its minimalist design and rounded corners feel modern and very much of the Apple Mac generation. The build is solid and weighty for its size, despite aluminium alloy being used rather than magnesium alloy as in the V1. Although the buttons are not huge, the rear controls are well spaced for easy operation and the almost flush mounting of the top controls are very responsive, including a clear two-stage press on the shutter button. I felt the design of the controls meant that my fingers fell naturally towards shooting modes and auto operation, with manual controls very much tucked away in the background. An F button provides burst speed, musical theme and slow motion video selection, but unfortunately cannot be customised for something more useful such as ISO, metering or white balance. As in the V1, the rotating dial feels as though it should be the main control for aperture or shutter, but this only operates the aperture in full manual shooting, with the smaller zoom rocker providing the primary control.

The camera feels very comfortable and





in proportion to its lenses, and even with the 30–110mm zoom fitted it still feels compact. The 10–30mm, being a collapsible zoom, makes the camera very pocket friendly, while the 10mm pancake is just a fraction smaller and has the benefit of a larger f/2.8 aperture.

**8/10**

### NOISE, RESOLUTION AND SENSITIVITY

With the same internal construction as the V1, the J1 produces an identical noise and resolution performance. Although some people may be put off by the J1's relatively low resolution, both detail and noise are well controlled. It is only when images are examined at much larger sizes that individual pixels are noticeable, because, as with the V1, there is no blurring applied to disguise the pixelation.

Our resolution chart shows a score of 20 at ISO 100, with very little detail lost as the sensitivity increases, retaining a score of 16 at the ISO 6400 equivalent Hi setting. When you compare this to other compact system cameras, though, the resolved detail is very low. The pixel density is around 2.1 million pixels per inch compared to nearly 6 million pixels per inch on the 10.1-million-pixel, 1/1.7in sensor of the Coolpix P7100. However, the J1's sensor is still heavily populated even when compared to four thirds sensor models, which for a 16-million-pixel version equates to around 1.8 million pixels per inch.

Noise levels are well controlled with luminance noise only becoming visible above ISO 800 and colour noise at ISO 3200 and 6400. Using the in-camera High ISO noise reduction eradicates colour noise while keeping luminance noise to a manageable level, making all sensitivity settings very usable.

**24/30**

### DYNAMIC RANGE

DxO Labs ([www.dxomark.com](http://www.dxomark.com)) measured both the J1 and V1's dynamic range as 11.1EV. Although this is not on a par with Nikon's recent DSLRs, it is beyond that of most recent compact system cameras, including the Panasonic Lumix DMC-G3 and Olympus E-PL3. From our images we were able to pull a decent amount of detail from both the shadows and the highlights, even from the JPEG files and by using the built-in highlights and shadows control that can be achieved in-camera, too.

**8/10**

### WHITE BALANCE AND COLOUR

Colour has been sensibly managed in the J1 to deliver bright, punchy results without veering towards an overly saturated image. The picture modes include a powerful vivid mode and a neutral mode for flattering tones, alongside monochrome, portrait and landscape options. All these can be fine-tuned for sharpness, contrast, brightness, saturation and hue to meet specific colour needs, while the custom settings can be loaded or saved to a card for use on Nikon 1 cameras.

White balance is well catered for, with six presets that are all adjustable, and a custom reading option, although the auto white balance gives a neutral result in most scenes.

**8/10**

### METERING

Despite having both centreweighted and spot options, the J1's matrix TTL metering system is more than capable of handling most situations. As the metering takes the focus point into account for its exposure, using the single-point AF option to select your point of focus can lead to a more suitable exposure. When faced with a wider contrast range than the sensor is able to contain, the camera can lose highlights, although not to any extreme

degree, and this can easily be rectified with a –0.3 or –0.7EV exposure compensation.

**8/10**

### AUTOFOCUS

The inclusion of phase detection on the sensor is an exciting prospect for mirrorless cameras, as contrast-detection systems have been unable to match phase detection on DSLRs, especially in low light. The camera makes the choice between phase and contrast systems, and under most lighting conditions it does a very good job, providing seemingly instant focusing. In low contrast and low light, however, the AF seems to struggle, which questions just how much the phase detection is bringing to the system. The AF tracking option and continuous focusing perform well and proved handy for capturing moving subjects.

**8/10**

### VIEWFINDER, LCD, LIVE VIEW AND VIDEO

With no viewfinder and no option to attach one, the rear LCD screen plays a pivotal role in composition, as well as in the menu and reviewing functions. Despite this, the 3in screen is of a lower resolution than that fitted to the V1, offering just 460,000 dots, as opposed to the 921,000 dots of the V1. When placed next to each other, the V1's screen is noticeably sharper, but in isolation the J1's screen still looks impressive, in quality, colour and viewing angle.

**8/10**

**Left: Metering performs well and only occasionally requires a negative compensation**

**Right: Even at high ISO, the J1 produces a relatively noise-free image**

## Verdict

**THE NIKON 1** system feels very different to the other compact system cameras, and although the J1 and V1 are undoubtedly sophisticated cameras that will have their place in the market, neither model really seems to meet the demands of the advanced photographer. While the J1, as the entry-level version, can be forgiven for its lack of direct access to functions such as exposure modes, it could still be made more adaptable by including the regular PASM settings on the mode dial and providing a custom button for other functions. While the differences in features between the J1 and V1 appear subtle, they do add up and the V1 is clearly the better camera. The battery life is perhaps the J1's biggest disappointment, but, for the small body and the rather large price saving I would choose the J1 over the V1.

**Amateur Photographer**  
Tested as a Compact system camera  
Rated Good  
**78%**

	1	2	3	4	5	6	7	8	9	10
FEATURES	6/10									
BUILD/HANDLING	8/10									
NOISE/RESOLUTION	24/30									
DYNAMIC RANGE	8/10									
AWB/COLOUR	8/10									
METERING	8/10									
AUTOFOCUS	8/10									
LCD/VIEWFINDER	8/10									



# AskAP

Let the AP team answer your photographic queries

## LET THERE BE LIGHT

**Q** I have inherited an old Leica M2, complete with a 50mm lens, which I enjoy using. I also take my Pentax K-7 out with me and use this to measure exposure readings so I know what aperture and shutter speed to set on the Leica, but it's got to the point where I really should buy an external light meter. What kind of lightmeter should I look for and do you have any recommendations?

**Paul Davies**

**A** That's a nice camera to have inherited. A light meter will enable you to enjoy the Leica M2 much more, and you could look for a design that clips into the camera's hotshoe. These were popular around the time of the M2, and you'll find examples second-hand on eBay or brand new from Voigtländer. The Voigtländer VC Meter II exposure meter (£204 from Robert White at [www.robertwhite.co.uk](http://www.robertwhite.co.uk)) comes in black or chrome and is easy to operate. Just press the orange button to activate it, and turn the shutter speed and aperture dials until you get a green light. Then transfer these settings to the camera and you're ready to shoot.

Alternatively, a handheld meter, like the Sekonic L-208 (pictured right, £80, also from Robert White), will offer the option of taking an incident light reading as well as a reflected one. Incident readings measure the intensity of light

falling onto a subject, not reflected from it. They are more accurate as they are not influenced by how light or dark the object is, although it's not always possible to work in this way. More expensive meters still feature spot metering, which lets you be very specific about where you take an exposure reading from.

The great thing about using a handheld meter is that you become used to what readings you'll get from certain conditions – so much so, that you might find yourself confident to guess and not bother taking a reading. For instance, a 'cloudy-bright' day with ISO 100 film usually requires 1/125sec at f/8 – and the exposure latitude of colour or black & white print film usually covers any error. Or why not try the 'sunny 16' rule. This states that, in bright sunshine, the shutter speed required at f/16 will be the reciprocal of the ISO in use. **Ian Farrell**



## SAFARI MODEL

**Q** My son is going on safari next year and wants to buy a DSLR to take with him. I have a Nikon D2X with a few lenses, including a 70–300mm zoom. Is it worth him buying a Nikon so he can use my lenses or should he try another manufacturer? His budget is about £1,000.

**Nick Massey**

**A** The features I'd look for in a DSLR, if I were taking it on safari, are a high continuous shooting speed and decent autofocus. In the Canon corner

something like the EOS 60D will be inside your son's budget when bought with a standard zoom and a telezoom. It can shoot 5.3fps (frames per second) and has nine AF points spread out in a diamond pattern that covers most of the frame. It also packs 18 million pixels of resolution and has a swivelling screen.

From Nikon, your son can afford to spend a little more on the camera if you have a telephoto lens you can lend him. Something like the D300S is a great option. Shooting speed is roughly the same as the Canon EOS 60D, but the AF is better, as is the build

## ASK...

Be it about modern technology, vintage equipment, photographic science or help with technique, here at AP we have the team that can help you. Simply send your questions to: [apanswers@ipcmedia.com](mailto:apanswers@ipcmedia.com) or by post to: **Ask AP, Amateur Photographer Magazine, IPC Media, Blue Fin Building, 110 Southwark Street, London SE1 0SU.**

quality. Resolution may only be 12 million pixels, but image quality is very high.

I'd suggest looking at these options side by side in a decent camera shop that will let you have a try with each one and shoot some pictures that you can examine at home.

**Ian Farrell**

## IN SEARCH OF AN ADAPTER

**Q** With reference to C R Bout's request for information on an adapter that would enable him to insert an xD-Picture Card into a CF or SD card slot on his inkjet printer (*Ask AP*, 26 November), I bought one of these from a local camera shop for my Olympus C-8080WZ some time ago. It is an Olympus CF card adapter MACF-10. I paid £45 at the time, but have now given it and the camera to my nephew after I bought a Canon EOS 50D.

The Olympus C8080WZ is a great camera. As you may know, its dual card slots enable the copying of files from one card to another.

**Vic Sciberras**

**A** Thanks for the tip, Vic. Searching for the model number MACF-10 does reveal a few sources of this elusive accessory.

You can also find more information about it at [www.olympus.co.uk/consumer/208\\_macf-10.htm](http://www.olympus.co.uk/consumer/208_macf-10.htm).

**Ian Farrell**



## MONKEY BUSINESS

**Q** The letter from Sarah Graham-Taylor (*Ask AP*, 19 November) regarding copyright reminded me of a clause in the terms and conditions of entry on the Monkey World website that states: 'We are happy for you to photograph or video our primates as a reminder of your visit to the park, however this must be for personal use only. You may not use photographs or videos taken of our primates, staff or park, for any commercial purposes. Exploitation is exactly

## f/AQ

### Why is off-camera flash so difficult?

A common perception among photographers is that wireless off-camera flash is one of the most complicated technical things a photographer can do. However, I have some good news: it's not complicated, it's easy.

I can see why people think that triggering a flashgun off-camera without the use of cables is difficult. The technology behind this is mind boggling,



## FROM THE AP FORUM

### Dreaded dust spots

**Rob Barnett asks** I recently bought a Canon EOS 1000D as my first DSLR. It's a great easy-to-use camera, but on my second trip out I noticed large dust spots on all the shots. This could not be seen on the sensor, but the automatic sensor cleaning was obviously not doing its job. I returned the camera to the retailer and exchanged it for another 1000D. This was fine on the first shoot, but now there are big dust spots in all the shots again!

I returned the second 1000D to the retailer and asked for a refund. I am now without a camera and am wondering whether to try a different manufacturer. I am not impressed with Canon and the automatic sensor cleaner appears to malfunction on the 1000D. Does anyone know what has gone wrong?

**Rjbell replies** Did you use the same lens on both cameras? Perhaps there is something on the lens, not on the sensor. I think if it were something on both sensors you have been

very unlucky, especially if they were both new cameras. Automatic sensor cleaning is not foolproof, but it does help. However, you will still get dirt and dust on the sensor over time.

**Rob Barnett replies** Both EOS 1000Ds were new boxed cameras and lenses. I checked the front and rear lens elements on both and these were spotless, so dust must have been inside the cameras when they were shipped to the UK.

**Norman replies** New cameras are likely to exhibit more sensor contamination from swarf that is rubbed off moving parts as the camera 'beds in'. Just blow it off and keep shooting. Canon will give you one free sensor clean under warranty if required.

**Beejaybee replies** I have a Canon EOS 5D Mark I, which does not have auto sensor cleaning, and an EOS 40D, which does. The auto sensor cleaning makes a considerable difference, but some small dust specks do still appear, especially at small apertures. Trying to work at f/5.6-f/8 is a help.

Try not to change lenses except when necessary, and do so in a clean environment with the camera kept pointed downwards rather than upwards. Cleaning the sensor is not difficult. Using the standard tools and following the instructions, there's no danger of permanent damage unless you're very careless. Film was not immune to dust spotting, but at least you got a fresh 'sensor' for every shot!

what we rescued many of our primates from, and so Monkey World retains the copyright of their images.' Would Monkey World's claim to own copyright of any images stand up in court? **Nigel Cox**

**A**s I understand it, if you enter private property, then you are bound by the terms and conditions that apply to entry. If the owner states that photography is not allowed, or that photography is only allowed for non-

commercial purposes, then you must respect that statement. To breach those conditions is trespass and the owner can use reasonable force to eject you from their property.

That said, Monkey World is wrong to claim it owns copyright of your images. It doesn't, and cannot claim ownership or copyright as a consequence of you buying entry to its property. It is quite sufficient for Monkey World to state that commercial photography is not allowed – and I have some sympathy about why this has been stated. **Ian Farrell**

but much of this is put in place to automate the process. Thankfully, you don't need to understand how off-camera flash works to use it effectively. Furthermore, some articles in the photographic press tend to imply that there is a lot of off-camera flash. At it's most basic, though, off-camera flash is easier than it ever was in the old manual-flash days.

Flashguns like Nikon's Speedlight SB-600 and SB-910, and Canon's Speedlite 420EX II and 580EX II (and many others), are capable of being triggered off-camera by pulses of light from the camera's built-in flash, or a trigger that fires out pulses of infrared light. Simply position the gun so that it's pointing at your subject and set it to remote mode. Then set your camera's built-in flash to operate as a 'commander' and away you go. You can use the camera

in an automatic mode to take in ambient light as well as flash, or set it to manual and increase the shutter speed to exclude ambient illumination. Some cameras offer the ability to throttle-back the built-in flash so it has virtually no effect on the picture, but still triggers the external flash.

After taking these first steps, you'll need no encouragement to experiment with exposure compensation. You can increase or decrease flash power using the flash exposure compensation on the gun, and alter the degree to which ambient light influences the picture with exposure compensation on the flash. Try underexposing the ambient light by 1-2 stops while keeping the flash set to correct exposure. The result will be a well-exposed subject against a dark moody background.

**Ian Farrell**

## In next week's AP

On sale Tuesday 10 January

### ON TEST

## SIGMA 105MM F/2.8 EX DG MACRO

Sigma's update of its classic 105mm macro is much bigger than its predecessor and has built-in optical stabilisation. **Mat Gallagher** finds out if it is the ultimate macro lens

### ON TEST

## PANASONIC LUMIX DMC-GX1

The 16-million-pixel GX1 compact system camera is Panasonic's latest addition to its G-series line-up. **Tim Coleman** to the test

### MASTERCLASS

## PORTRAITURE

**Andrew Sydenham** explores the basics of portraiture and explains how a simple lighting set-up can produce great results



CHRIS RANDLE

### DOCUMENTARY

## BEHIND CLOSED DOORS

**Robert Ormerod** talks about his Red Road documentary project that follows the lives of asylum seekers in Glasgow

© ROBERT ORMEROD



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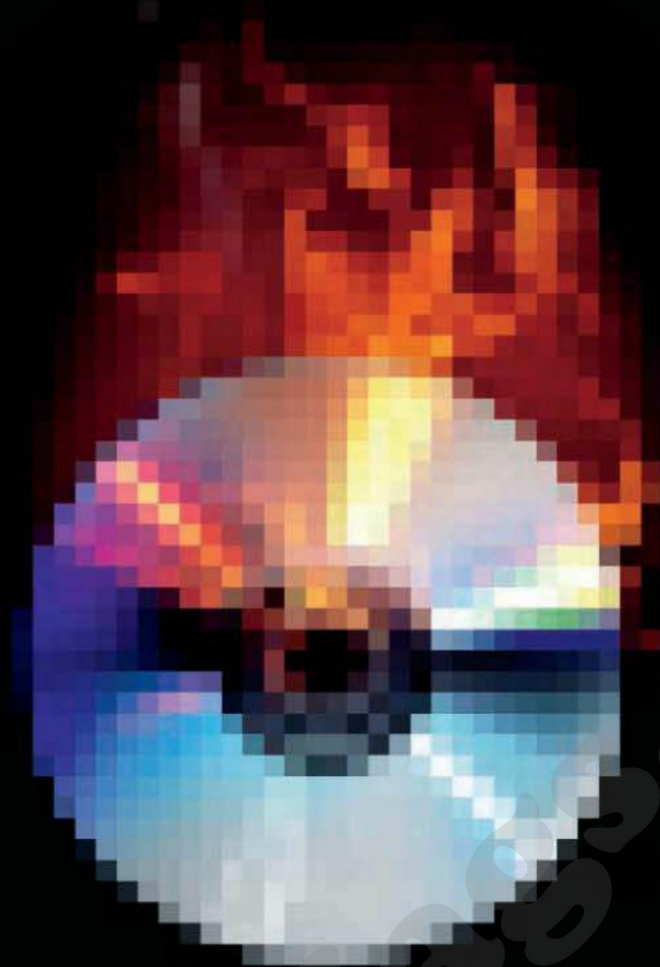
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# Future proofing

How long will your digital images last and what's the best way to make sure they can be viewed in the future?

**Mat Gallagher** looks at how to safeguard your archive

**WITH** film photography, there is an automatic back-up to your prints in the form of negatives or slides, and by keeping all these safe you can ensure that a record of your work will be maintained for many years to come. However, when some photographers switched to digital imaging they forgot about archiving and put their faith, often misguidedly, in their computer's hard drive. Yet all you need is a single error on the disk drive and suddenly your precious photographs have vanished. This may not have happened to many of us, but the point is, it could. So when it comes to backing up your work, it is important to have a secondary location for storing images, either in the form of prints, an additional disk drive or a version stored online.

In this feature we will look at the options available, their pros and cons, and their respective prices. We will also delve a little deeper into online and networked storage options and the benefits they can bring photographers.

## BACKING UP AND ARCHIVING

Downloading images onto a computer is essentially a process of storing the files, but as we've already mentioned, putting all your faith in one computer hard drive is risky. By placing files in two locations any risk of loss is significantly reduced, and should something happen to one you still have access to another copy. Storing files in three locations reduces the risk even further, and those with sentimentally or professionally valuable images should consider this level of back-up.

The archiving method you use is down to personal choice, but it is best to find something that suits the way you work and then stick to it. If using editing software to manage the downloading of images from a card or camera to a computer, it will inevitably provide back-up options within the controls. Many programs allow the selection of a second location to which images can be saved. This should be a completely different physical device to the primary storage space.

This ensures that a copy of your original files is safely stored straight away, although any adjustments made to the files will not be. For this reason, it is best to back up edited work separately, copy the files manually once they have been edited, or use a separate program to back up working files.

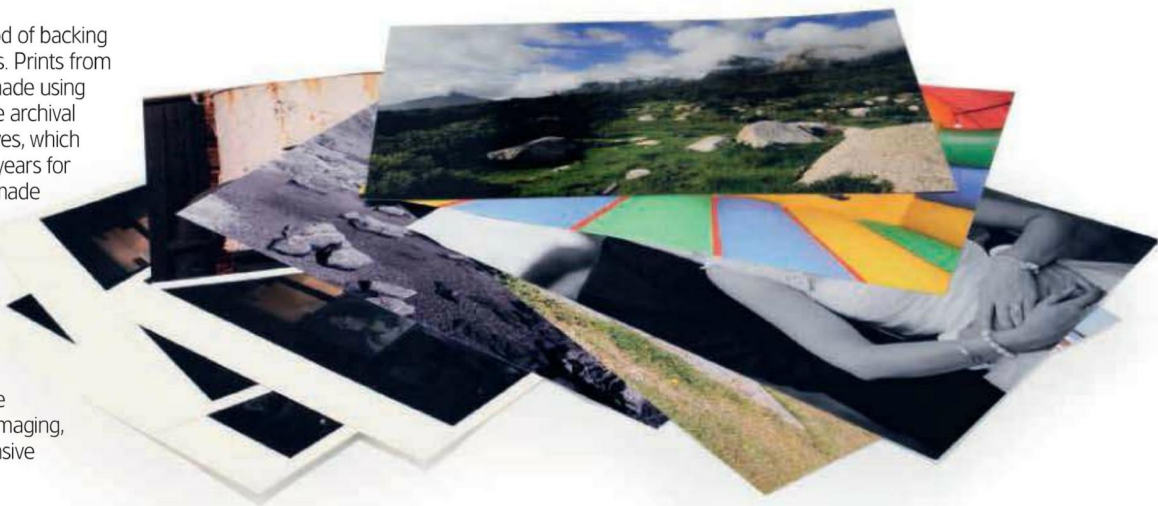
If you shoot using raw format, the options for storing files are greater but more complex. JPEG files are unlikely to become obsolete any time soon, but there is a chance that future editing programs may not support every type of raw file that has been produced. The safest option is to save older raw files into the universal DNG format, created by Adobe. Adobe software allows an automatic conversion of raw files when downloading or the ability to manually convert them in the software. There is also a free converter that can be downloaded from [www.adobe.com](http://www.adobe.com), which is handy for accessing raw files that are otherwise not supported by current software. Pentax and Ricoh cameras have the option to shoot in DNG format, so no conversion is needed. Files can also be converted into TIFF formats for storage. This is ideal for finished edits of your images, as they can be saved as 16-bit files, although they don't contain the same amount of data that a raw file holds.





# PHYSICAL STORAGE

**A SOMETIMES** overlooked method of backing up your images is storing physical prints. Prints from professional and high-street labs are made using photographic paper and have the same archival qualities as prints from slides or negatives, which is normally stated as being around 65 years for Fujicolor Crystal Archive paper. Prints made on inkjet photo paper, especially with pigment inks and using matt or art papers, often have even greater life, with some rated up to 200 years if stored correctly. With such an extended life, back-up prints should be considered for those prize photos. However, with more photographs usually taken with digital imaging, it would be time-consuming and expensive to print all your files.



## LOCAL STORAGE SOLUTIONS

**LOCAL** storage includes the various methods that can be used to back up files in the home. The most popular are the CD-ROM and DVD-R discs. These can now be bought for a few pence per disc if purchased in bulk and they are easily catalogued. CD-ROMs soon gave way to DVDs as camera resolutions increased, but a DVD-R with a 4.7GB (or even 8.5GB for double-layer discs) can barely contain the images from a single memory card, as photographers opt for 8GB or 16GB cards. The longevity of CD and DVD-R has also been questioned, both due to new formats superseding them and to an estimated life of just ten years for some discs. While Blu-ray discs with their 25GB or

50GB storage potential may seem like the natural progression, the value and ease offered by external hard drives has made these a more flexible option.

External hard drives are now available in 500GB and 1TB capacities for less than £100, which is enough to store the equivalent of hundreds of DVD discs, and they make transferring and editing data quicker and easier. Larger capacity hard drives usually require a separate power source and feature a moving optical drive, much like the one inside your computer. For this reason, they are designed for desktop use and must be treated with care, as a bang or knock while the disc is spinning could lead to data loss. Smaller capacity drives (powered by the computer they are plugged into) are available in



sturdy cases for those on the move.

These devices often use a form of flash memory, similar to that used by memory cards. They have no moving parts, but cost more as a result. It is worth placing files on two identical external drives in case the original file doesn't remain on the computer. Alternatively, use an external drive in addition to another form of back-up.



# ONLINE STORAGE

**ONLINE** storage is a relatively new option for the amateur user, as data speeds and hosting costs have previously been prohibitive to transferring and storing large files on a server. Now, though,

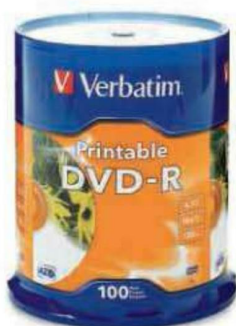
fast home broadband and healthy competition mean that it is relatively easy to upload large files and store them for very little cost. As with all online transactions, it is best to stick with a trustworthy and known brand. If a company is to be entrusted with your images, it is important to know they cannot be accessed by others, the server won't fail, or the company go bust. Popular image-sharing sites such as Flickr are an easy way to save versions of your favourite images, and these sites allow full-sized JPEGs to be saved for no fee. Adobe's Photoshop.com offers users free storage of their images up to 2GB, and even provides online editing facilities. For

more general back-up services, including raw files and other documents, it is best to look at a specialist hosting company such as Carbonite ([www.carbonite.co.uk](http://www.carbonite.co.uk)), Livedrive ([www.livedrive.com](http://www.livedrive.com)) or Mozy ([www.mozy.co.uk](http://www.mozy.co.uk)). These may provide a basic storage package for free and then additional storage for a nominal fee or just a flat rate per month. If you are paying for storage, it is best to limit the files that you upload to just your valuable images. This is because even with a fast home internet connection, upload speeds tend to be much slower than download speeds, which means it can take many hours to upload even a small number of files.



# BACK-UP MANAGEMENT

**THE PROCESS** of backing up files takes time and can seem a bit of a hassle for an event that might never happen. However, there are software applications, such as Clickfree ([www.clickfree.com](http://www.clickfree.com)), that are designed to take the effort out of the process. Apart from a little time spent setting them up, they work completely automatically and ensure that you never forget to back up your files. The software will require the folders and files for back-up to be selected, which can be a regular image folder or your entire My Documents file. A



location will also be needed to save the back-up to, which can be an external hard drive or even an online storage location. Instructions regarding the frequency of the back-up will also be needed, which can be anything from every hour to once a month, while some systems may allow you to back up new files. Systems such as the Time Machine back-up (which is integrated into Apple Mac operating systems) will archive versions of your files on an external hard drive or Apple's Time Capsule, and remembers how your system looked on any given day so



you can revisit your Mac as it appeared in the past. The number of versions is limited by the storage space you have available, but as only the altered files are resaved each time, the amount of storage isn't as vast as you may think.

# THE CLOUD

**THE TERM** 'cloud computing' refers to the idea of programs or services being hosted from an online server that requires just an internet connection to access and use them. The idea is that files stored online can then be viewed and edited from wherever you are in the world, rather than being tied to a specific computer or hard drive. Storage is typically charged by the amount needed rather than a set fee, although there are free services available, such as Dropbox ([www.dropbox.com](http://www.dropbox.com)). Apple has made a show of its cloud facility, which allows you to mirror what you see on your computer, phone or tablet, including your images. Adobe also has a solution known as carousel ([www.adobe.com/products/carousel.html](http://www.adobe.com/products/carousel.html)), which allows you to upload your images to its server, and view and edit them as you would in Lightroom on either a tablet or smart phone.



# PRICING COMPARISONS

**SO WHICH** of the back-up solutions is best? Each has pros and cons and there are variations on price, ease of use and time taken. Here is a rundown of the prices and details for some of the main solutions, based on the storage of 300GB of images. Remember, the best option is to have at least two back-ups.

PRINTS	300x 10x8in prints (£1.09 bulk price from <a href="http://www.photobox.co.uk">www.photobox.co.uk</a> ) £327
Pros	Long lasting, easy to view
Cons	Time taken to print
DVD	100 discs (470GB) £20
Pros	Cheap solution, good for an extra back-up
Cons	Time to burn discs, lots of disc swapping to view, limited life
EXTERNAL HDD	500GB model £65
Pros	Large capacity, easy access
Cons	Still an electronic storage and can fail
ONLINE STORAGE	£41.95 per year or £101.95 for three years ( <a href="http://www.carbonite.co.uk">www.carbonite.co.uk</a> )
Pros	Safe and accessible storage, unlimited for the contents of your computer
Cons	Fast connection to internet needed, if server fails or company goes bust you could lose your work







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EOS 5D Mk II + 24-70 L **£2,434.99**

## Canon EOS 1100D



- ▶ 12 Megapixel CMOS sensor
- ▶ On-screen Feature Guide
- ▶ Creative Auto and Basic +
- ▶ HD Video capture
- ▶ Compact & Lightweight

EOS 1100D Body Only **£309.00**

EOS 1100D + 18-55 IS II **£394.99**

## Canon EOS 550D



- ▶ 18 Megapixel CMOS sensor
- ▶ Up to 3.7fps shooting
- ▶ Full HD movies
- ▶ ISO 100-6400, H:12800
- ▶ 3.0" LCD Screen

EOS 550D Body Only **£440.00\***

EOS 550D + 18-55 IS II **£529.99\***

\*Prices shown include £40 cashback from Canon if bought between 03.11.11 & 25.01.2012

## Canon EOS 600D



- ▶ 18 Megapixel CMOS sensor
- ▶ Scene Intelligent Auto mode
- ▶ Full HD movies
- ▶ Up to 3.7fps shooting
- ▶ 3.0" Vari-angle LCD Screen

EOS 600D Body Only **£485.00\***

EOS 600D + 18-55 IS II **£579.00\***

\*Prices shown include £50 cashback from Canon if bought between 03.11.11 & 25.01.2012

## Canon EOS 60D



- ▶ 18 Megapixel CMOS sensor
- ▶ Advanced creative features
- ▶ Full HD movies
- ▶ ISO 100-6400, H:12800
- ▶ 3.0" Vari-angle LCD Screen

EOS 60D Body Only **£749.99**

EOS 60D + 18-55 IS II **£849.99**

## Canon EOS 7D



- ▶ 18 Megapixel CMOS sensor
- ▶ Up to 8fps shooting
- ▶ Full HD movies
- ▶ Magnesium alloy body
- ▶ 3.0" Clear View II LCD

EOS 7D Body Only **£1,099.99**

EOS 7D + 15-85 IS **£1,679.98**

\*Purchase an EOS 60D, 7D or 5D Mk II between 01/12/11 and the 28/02/12 to claim up to £320 cashback on selected Canon lenses. See web for further details.

## Canon EOS-1D<sup>Mark IV</sup>



- ▶ 16.1 Megapixel CMOS sensor
- ▶ Up to 10fps shooting
- ▶ Full HD movies
- ▶ High ISO up to 102400
- ▶ 3.0" Clear View II LCD

EOS-1D IV Body Only **£3,499.99**

See website for bundle deals with the EOS-1D IV

## Canon PowerShot SX220 HS



- ▶ HS System (12.1 MP)
- ▶ 28mm, 14x zoom. Optical IS
- ▶ Full HD with optical zoom.
- ▶ Wide 3.0" PureColor II G LCD
- ▶ Manual Control

PowerShot SX220 HS **£169.00**

Add a SanDisk 4GB Ultra SDHC Card for only £9.99!

\*Prices shown include £30 cashback from Canon if bought between 03.11.11 & 25.01.2012

## Canon PowerShot S100



- ▶ 12.1 MP CMOS sensor
- ▶ HS System with DIGIC 5
- ▶ 5x Optical Zoom
- ▶ Intelligent IS
- ▶ Lens Control Ring

PowerShot S100 **£129.00**

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Our most popular Canon lenses, at LOW PRICES!

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<b>Only £1,799.99</b> SRP £2,799.99 Save £1,000	<b>Only £779.99</b> SRP £1,409.99 Save £630.00	<b>Only £88.99</b> SRP £129.99 Save £41.00
14mm f/2.8 II USM <b>£1,899.00</b>	300mm f/2.8 L USM IS II <b>£5,549.00</b>	EF-S 18-135mm IS (Unboxed) <b>£239.99</b>
20mm f/2.8 USM <b>£408.99</b>	300mm f/4.0 L USM IS <b>£1,179.99</b>	EF-S 18-200mm f/3.5-5.6 IS <b>£409.00</b>
24mm f/1.4 L Mk II USM <b>£1,324.00</b>	400mm f/2.8 L USM IS II <b>£8,869.00</b>	24-70mm f/2.8 L USM <b>£978.00</b>
24mm f/2.8 <b>£369.99</b>	400mm f/4.0 DO L USM IS <b>£5,379.99</b>	24-105mm f/4.0 L IS USM <b>£918.99</b>
28mm f/1.8 USM <b>£388.99</b>	400mm f/5.6 L USM <b>£1,099.99</b>	24-105mm IS (White Box) <b>£779.99</b>
28mm f/2.8 <b>£165.99</b>	500mm f/4.0 L USM IS II <b>£8,489.00</b>	28-135mm f/3.5-5.6 USM IS <b>£374.00</b>
35mm f/1.4 L USM <b>£1,158.99</b>	600mm f/4.0 L USM IS II <b>£10,999.00</b>	28-300mm f/3.5-5.6 L IS USM <b>£2,184.99</b>
35mm f/2.0 <b>£219.99</b>	800mm f/5.6 L IS USM <b>£9,699.00</b>	EF-S 55-250mm f/4-5.6 IS <b>£159.99</b>
50mm f/1.2 L USM <b>£1,269.00</b>	TSE 17mm f/4.0 <b>£1,849.99</b>	EF-S 55-250mm f/4-5.6 IS II <b>£208.99</b>
50mm f/1.4 USM <b>£299.99</b>	TSE 24mm f/3.5 L II <b>£1,699.99</b>	70-200mm f/2.8 L IS II USM <b>£1,799.99</b>
50mm f/1.8 II <b>£88.99</b>	TSE 45mm f/2.8 <b>£1,118.99</b>	70-200mm f/2.8 L USM <b>£979.00</b>
50mm f/2.5 Macro <b>£234.99</b>	TSE 90mm f/2.8 <b>£1,118.99</b>	70-300mm f/4.0 L IS USM <b>£909.99</b>
EF-S 60mm f/2.8 Macro <b>£364.99</b>	8-15mm f/4 L Fisheye USM <b>£1,149.00</b>	70-300mm f/4.0 L USM <b>£489.99</b>
MP-E 65mm f/2.8 <b>£849.99</b>	EF-S 10-22mm f/3.5-4.5 USM <b>£629.99</b>	70-300mm f/4.0-5.6 L IS USM <b>£1,089.00</b>
85mm f/1.2 L II USM <b>£1,759.00</b>	EF-S 15-85mm f/3.5-5.6 IS USM <b>£579.00</b>	70-300mm f/4.5-5.6 DO IS USM <b>£1,139.99</b>
85mm f/1.8 USM <b>£311.99</b>	16-35mm f/2.8 L IS USM <b>£1,149.00</b>	75-300mm f/4.0-5.6 Mk III <b>£199.99</b>
100mm f/2 USM <b>£380.99</b>	17-40mm f/4.0 L USM <b>£614.00</b>	75-300mm f/4.0-5.6 USM II <b>£241.99</b>
100mm f/2.8 USM Macro <b>£429.00</b>	EF-S 17-55mm f/2.8 IS USM <b>£789.00</b>	100-400mm f/4.5-5.6 L USM IS <b>£1,199.00</b>
100mm f/2.8 L Macro IS USM <b>£718.99</b>	EF-S 17-85mm f/4.0-5.6 IS USM <b>£349.99</b>	200-400mm f/4.0 L USM IS <b>TBC</b>
135mm f/2.0 L USM <b>£399.00</b>	EF-S 17-85mm IS (Unboxed) <b>£229.99</b>	1.4x III Extender <b>£454.99</b>
135mm f/2.8 Soft Focus <b>£352.99</b>	EF-S 18-55mm IS II (Unboxed) <b>£100.00</b>	2x III Extender <b>£454.99</b>
180mm f/3.5 L USM Macro <b>£1,258.99</b>	EF-S 18-55mm f/3.5-5.6 IS II <b>£139.99</b>	
200mm f/2.0 L IS USM <b>£4,939.99</b>	EF-S 18-135mm f/3.5-5.6 IS <b>£294.99</b>	
200mm f/2.8 L USM/2 <b>£639.99</b>		

## Canon Accessories

Wireless File Transmitters	Battery Grips	Waterproof Housings
WFT-E1 (EOS 1Ds I) <b>£999.99</b>	BG-E5 (EOS 450D) <b>£119.99</b>	WP DC26 (IXUS 870 IS) <b>£119.99</b>
WFT-E2 Mark II (EOS 1D IV) <b>£629.99</b>	BG-E6 (5D Mk II) <b>£219.95</b>	WP DC28 (PowerShot G10) <b>£169.99</b>
WFT-E3 (EOS 40D) <b>£719.99</b>	BG-E7 (7D) <b>£149.99</b>	WP DC32 (IXUS 110 IS) <b>£169.99</b>
WFT-E4 (EOS 5D Mk II) <b>£499.99</b>	BG-E8 (550D) <b>£114.99</b>	WP DC33 (IXUS 120 IS) <b>£175.00</b>
WFT-E5 Mark II (EOS 5D Mk II) <b>£999.99</b>	BG-E9 (60D) <b>£159.99</b>	WP DC39 (PowerShot S90) <b>£175.00</b>
WFT-E5B (EOS 7D) <b>£429.99</b>		WP DC39 (IXUS 115) <b>£175.00</b>
Batteries	Flashguns	Cases
NB 6L (for Digital IXUS 85 IS) <b>£43.00</b>	Speedlite 270EX II <b>£159.99</b>	EH-19L Semi-Hard (600D) <b>£39.99</b>
NB 7L (for Powershot G10) <b>£59.00</b>	Speedlite 320EX <b>£224.99</b>	EH-20L Semi-Hard (7D) <b>£92.99</b>
NB 9L (for IXUS 1000 HS) <b>£43.00</b>	Speedlite 430EX II <b>£209.99</b>	EH-21L Semi-Hard (60D) <b>£39.99</b>
BP 511A (66,300,400,500,50D) <b>£79.99</b>	Speedlite 580EX II <b>£379.00</b>	DCC-62 Leather (IXUS 105) <b>£4.99</b>
LP E4 (for EOS 1D / 1Ds Mark III) <b>£124.00</b>	MacroLite MR-14EX <b>£459.99</b>	DCC-85 Soft Case (A1000 IS) <b>£6.99</b>
LP E5 (EOS 450D / 500D) <b>£44.99</b>	MT-24EX Macro Twin Flash <b>£789.99</b>	DCC 510 Soft Case (A3300 IS) <b>£19.00</b>
LP E6 (for 60D / 7D / 5D Mk II) <b>£69.99</b>	Speedlite Transmitter ST-E2 <b>£179.99</b>	DCC 1500 Soft Case (SX210 IS) <b>£23.00</b>
LP E8 (for EOS 550D / 600D) <b>£44.99</b>		DCC 1600 Soft Case (G12) <b>£39.00</b>
LP E10 (for EOS 1100D) <b>£44.99</b>		DCC 1400 Soft Case (S90) <b>£23.00</b>
Remotes		SC-DC65A Black Case (G11) <b>£75.00</b>
RC-6 (EOS, 550D, 600D) <b>£16.99</b>		
RS-60E3 (EOS 400D, 450D) <b>£24.99</b>		
RS-80N3 (40D, 50, 1D II 10s II) <b>£44.99</b>		
TC-80N3 (50D, 50, 1D II 10s II) <b>£119.99</b>		
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LP-E6 Battery	LP-E8 Battery	LP-E10 Battery
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Speedlite 320EX	Speedlite 580EX II	MacroLite MR-14EX
Our Price <b>£224.99</b>	Our Price <b>£379.00</b>	Our Price <b>£459.99</b>
BG-E6 Grip (5D Mk II)	BG-E8 Grip (550D/600D)	RC-6 Remote
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- ▶ Built-in flash
- ▶ Smart Photo Selector

- ▶ 10.1 Effective Megapixels
- ▶ Full-HD Movie Recording
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- ▶ 3.0" LCD Screen
- ▶ Motion Snapshot

- ▶ Intelligent and portable system
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SRP £589.99

## Nikon D5100

- ▶ 16.2 Megapixel CMOS sensor
- ▶ High ISO (100-6400)
- ▶ Full HD movies
- ▶ 4 fps continuous shooting
- ▶ Compact & Lightweight



D5100 Body Only **£525.00**  
D5100 + 18-55 VR **£675.00**

## Nikon D90

- ▶ 12.3 Megapixel CMOS sensor
- ▶ High ISO (200-3200)
- ▶ D-Movie function
- ▶ 4.5 fps continuous shooting
- ▶ Compact & Lightweight



D90 Body Only **£559.99**  
D90 + 18-105 VR **£749.99**

## Nikon D300s

- ▶ 12.3 Megapixel CMOS sensor
- ▶ High ISO (200-3200)
- ▶ D-Movie function
- ▶ 7 fps continuous shooting
- ▶ Durable, magnesium alloy body



D300s Body Only **£1,049.99**  
D300s + 18-200 VR **£1,729.98**

## Nikon D3s

- ▶ 12.1 MP Full-Frame CMOS sensor
- ▶ High ISO (200-3200)
- ▶ D-Movie function
- ▶ 9 fps continuous shooting
- ▶ Durable, magnesium alloy body



D3s Body Only **£3,548.00**  
See website for further Nikon D3s Offers

## Nikon SLR System Bag

**£19.99**  
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**£449.99**



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**£69.99**  
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## PENTAX K-r

- ▶ 12 Megapixel stabilised CMOS sensor
- ▶ High Sensitivity up to ISO 25,600
- ▶ Continuous shooting 6 fps
- ▶ HD Video
- ▶ High resolution 3" LCD Screen



K-r Black +18-55mm **£379.00**  
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## PENTAX Q

- ▶ 12 MP CMOS sensor
- ▶ Full HD Video
- ▶ New range of lenses
- ▶ Shake reduction system
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Q + 8.5mm **£429.00**  
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## PENTAX K-5

- ▶ 16.3 Megapixel stabilised sensor
- ▶ Weatherproof body with 77 seals
- ▶ Continuous shooting 7 fps
- ▶ Sensitivity range: ISO 80-51,200
- ▶ Full HD Video



K-5 Body Only **£729.00**  
K-5 + 18-55 VR **£784.00**

## PENTAX 645D

- ▶ 40 million pixels
- ▶ Low-pass-filter-less design
- ▶ 77-segment metering
- ▶ Weather resistant
- ▶ Dual SD/SDHC card slots



645D Body Only **£8,999.00**  
645D + S55mm **£9,995.00**

## Pentax Lenses

### Fixed Focal Length Lenses

14mm f/2.8 DA ED IF SMC	<b>£537.00</b>
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21mm f/2.8 DA ED IF SMC	<b>£389.00</b>
31mm f/1.8 FA SMC (Black)	<b>£1,039.99</b>
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35mm f/2.8 FA SMC	<b>£439.99</b>
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55mm f/1.4 SMC DA*	<b>£389.00</b>
70mm f/2.4 SMC DA Limited	<b>£789.00</b>
77mm f/1.8 SMC DA (Black)	<b>£789.00</b>

### Macro Lenses

200mm f/2.8 SMC DA* ED IF	<b>£739.00</b>
300mm f/4 SMC DA* ED IF SMC	<b>£929.00</b>
35mm f/2.8 Macro Limited	<b>£389.00</b>
50mm f/2.8 MACRO DFA SMC	<b>£369.00</b>
100mm f/2.8 D FA Macro WR	<b>£479.00</b>
100mm f/2.8 D FA Macro WR	<b>£479.00</b>
100mm f/2.8 D FA Macro WR	<b>£479.00</b>
100mm f/2.8 D FA Macro WR	<b>£479.00</b>
100mm f/2.8 D FA Macro WR	<b>£479.00</b>
100mm f/2.8 D FA Macro WR	<b>£479.00</b>

### Standard Zoom Lenses

18-55mm f/3.5-5.6 (Unboxed)	<b>£30.00</b>
18-55mm f/3.5-5.6 DA AL WR	<b>£174.00</b>
18-55mm WR (Unboxed)	<b>£75.00</b>
18-135mm f/3.5-5.6 WR	<b>£369.00</b>
28-135mm f/2.8 ED IF DA*	<b>£689.00</b>
50-200mm f/4.5-6.7 ED WR (Unboxed)	<b>£179.00</b>
50-200mm f/4.5-6.7 ED WR	<b>£209.99</b>
55-300mm f/4.0-5.8	<b>£289.00</b>
60-250mm f/4.0 ED (IF) SDM	<b>£1,019.00</b>

## Nikon Lenses

AF-G 10.5mm f/2.8G ED DX	<b>£517.00</b>	AF-S 200mm f/2G ED VR II	<b>£4,334.99</b>	AF-S 17-35mm f/2.8 IF-ED	<b>£1,399.99</b>
AF-D 16mm f/2.8D Fisheye	<b>£613.99</b>	AF-S 300mm f/2.8G ED VR II	<b>£4,054.99</b>	AF-S 17-55mm f/2.8G IF-ED	<b>£1,079.99</b>
AF-D 14mm f/2.8D	<b>£1,249.99</b>	AF-S 300mm f/4 D IF-ED	<b>£979.99</b>	AF-S 18-55mm f/3.5-5.6G II	<b>£127.99</b>
AF-D 20mm f/2.8D	<b>£469.99</b>	AF-S 400mm f/2.8G ED VR	<b>£6,645.99</b>	AF-S 18-55mm f/3.5-5.6G VR	<b>£110.00</b>
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AF-S Nikkor 24mm f/1.4G ED	<b>£1,603.99</b>	AF-S 600mm f/4G ED VR	<b>£7,199.99</b>	AF-S 18-200mm f/3.5-5.6G VR	<b>£599.99</b>
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AF-S 35mm f/1.4G	<b>£1,394.99</b>	AF-S 60mm f/2.8G Micro ED	<b>£409.99</b>	AF-D 24-85mm f/2.8-4	<b>£529.99</b>
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35mm f/1.8 AF-S DX	<b>£169.99</b>	AF-S 105mm f/2.8G VR IF-ED	<b>£612.99</b>	AF-S 28-300mm f/3.5-5.6G VR	<b>£694.99</b>
AF 50mm f/1.4D	<b>£239.99</b>	AF-D 200mm f/4D IF-ED	<b>£1,139.99</b>	AF-S 55-200mm f/4.5-5.6G VR DX	<b>£199.99</b>
AF-S 50mm f/1.4G	<b>£293.99</b>	PC-E 24mm f/3.5D ED	<b>£1,419.99</b>	AF-S 55-300mm f/4.5-5.6G VR	<b>£259.99</b>
AF-D 50mm f/1.8	<b>£112.99</b>	PC-E 45mm f/2.8D ED Micro	<b>£1,419.99</b>	AF-S 70-200mm f/2.8 VR II	<b>£1,632.99</b>
AF-S 50mm f/1.8G	<b>£184.99</b>	PC-E 85mm f/2.8D ED	<b>£1,399.99</b>	AF-S 70-300mm f/4.5-5.6G VR	<b>£449.99</b>
AF-D 85mm f/1.8D	<b>£314.99</b>	AF-S 10-24mm f/3.5-4.5G DX	<b>£666.99</b>	AF-D 80-400mm f/4.5-5.6 VR	<b>£1,184.99</b>
AF-S 85mm f/1.4G	<b>£1,249.99</b>	AF-S DX 12-24mm f/4 G IF-ED	<b>£829.99</b>	AF-S 200-400mm f/4G VR II	<b>£4,899.99</b>
AF-DC 105mm f/2.0 Nikkor	<b>£794.99</b>	AF-S 14-24mm f/2.8G ED	<b>£1,316.99</b>	TC-14E II 1.4x Teleconverter	<b>£319.99</b>
AF-D 135mm f/2.0D	<b>£989.99</b>	AF-S 16-35mm f/4G ED VR	<b>£849.99</b>	TC-17E II 1.7x Teleconverter	<b>£319.99</b>
AF-D 180mm f/2.8 IF-ED	<b>£628.99</b>	AF-S 16-85mm f/3.5-5.6G VR	<b>£448.99</b>	TC-20E III 2.0x Teleconverter	<b>£404.99</b>

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## OLYMPUS E-PM1

- ▶ 12.3 MP CMOS sensor
- ▶ Full HD Movie
- ▶ 6 Creative Art Filters
- ▶ Metal Body
- ▶ 3.0" LCD Screen



**£50 Cashback\***  
\*Additional £50 cashback from Olympus on E-PM1 kits if bought between 01.11.11 & 31.12.11

## OLYMPUS E-PL1

- ▶ 12.3 MP MOS sensor
- ▶ HD Movie
- ▶ Image Stabiliser
- ▶ Art Filters
- ▶ 2.7" LCD Screen



**FREE GOODS\***  
\*FREE 2GB Go Digital SD Card (4060195) & Olympus E-System Case (4110100K) worth £39.98

## OLYMPUS E-PL3

- ▶ 12.3 MP MOS sensor
- ▶ Full HD Movie
- ▶ 6 Creative Art Filters
- ▶ Metal Body
- ▶ 3.0" Tilt LCD



**£50 Cashback\***  
\*Additional £50 cashback from Olympus on E-PL3 kits if bought between 01.11.11 & 31.12.11

## OLYMPUS E-P3

- ▶ 12.3 MP MOS sensor
- ▶ Full HD Movie
- ▶ Image Stabiliser
- ▶ 10 Creative Art Filters
- ▶ 3.0" LCD Touchscreen



**£50 Cashback\***  
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## Olympus Lenses

### 4/3 Lenses

8mm f/3.5 ED Fisheye	<b>£714.99</b>	14-42mm f/3.5-5.6 ED	<b>£95.00</b>	EC-20 2x Tele Converter	<b>£387.99</b>
25mm f/2.8 Pancake	<b>£208.99</b>	14-42mm f/3.5-5.6 ED II	<b>£249.99</b>	MICRO 4/3 LENSES	
35mm f/3.5 Macro	<b>£199.99</b>	14-35mm f/2.0 ED SWD	<b>£1,799.00</b>	12mm f/2.0	<b>£599.99</b>
50mm f/2.0 ED Macro	<b>£569.00</b>	14-54mm f/2.8-3.5 II	<b>£549.00</b>	17mm f/2.8	<b>£249.99</b>
50mm f/2.0 ED	<b>£1,999.00</b>	18-100mm f/3.5-6.3	<b>£419.00</b>	45mm f/1.8	<b>See Web</b>
150mm f/2.0 ED	<b>£5,799.00</b>	35-100mm f/2.0	<b>£1,999.00</b>	9-18mm f/4-5.6	<b>£499.99</b>
7-14mm f/4	<b>£1,449.00</b>	40-150mm ED (Unboxed)	<b>£1,149.00</b>	14-150mm f/4.0-5.6 ED	<b>£499.99</b>
9-18mm f/4.0-5.6	<b>£479.00</b>	50-200mm f/4.0-5.6 ED II	<b>£244.99</b>	14-42mm f/3.5-5.6 II	<b>£249.99</b>
11-22mm f/2.8-3.5	<b>£719.00</b>	50-200mm f/2.8-3.5 ED SWD	<b>£979.00</b>	40-150mm f/4.0-5.6	<b>See Web</b>
12-60mm f/2.8-4.0 ED SWD	<b>£899.00</b>	70-300mm f/4.0-5.6 ED	<b>£309.99</b>	75-300mm f/4.8-6.7	<b>£599.00</b>
14-42mm f/3.5-5.6 ED	<b>£95.00</b>	90-250mm f/2.8	<b>£4,699.00</b>		
		EC-14 1.4x Tele Converter	<b>£367.99</b>		





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CUSTOMER REVIEW: D3100 + 18-55mm VR  
★★★★★ 'A Superb, entry level DSLR' Bullwinkle - Essex



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D90 Body **£619**  
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CUSTOMER REVIEW: D90 + 18-105mm VR  
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D5100 Body RRP £669.99 **£559**  
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CUSTOMER REVIEW: D5100 + 18-55mm VR  
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D7000 RECOMMENDED ACCESSORY: Nikon MB-D11 Battery Grip **£244.95**

CUSTOMER REVIEW: D7000 + 18-105mm VR  
★★★★★ 'Amazing results with high ISOs' Jeffers - West Sussex



**Nikon D300s** From **£1069**

D300s Body RRP £1499.99 **£1069**

Nikon Capture NX2 **£132.99**  
Nikon Capture NX2 Upgrade (Capture NX required) **£81.99**

CUSTOMER REVIEW: D300s + 16-85mm VR  
★★★★★ 'The perfect combo for a Prosumer' Robin - Bristol



**Nikon D700** From **£1899**

D700 Body RRP £2247.99 **£1899**

Nikon Camera Control Pro 2  
Remotely control most functions of Nikon DSLRs from a computer via USB or Wireless Transmitter **£136.99**

CUSTOMER REVIEW: D700 Body  
★★★★★ 'Terrific Full-Frame DSLR' Richard300 - North Wales



**Nikon D3s** From **£3525**

D3s Body RRP £4199 **£3525**

**Nikon D3x** From **£5039**

D3x Body **£5039**

CUSTOMER REVIEW: D3s Body  
★★★★★ 'Superb Pro-Camera' WorcesterWeddings - Worcester

CUSTOMER REVIEW: D3x Body  
★★★★★ 'As good as it gets' Peterthegreat - Kent

## SONY



**NEX-5N** From **£479**

NEX-5N Body (Black) **£429 Inc Cashback\***  
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**E-5 Body** **£1338**

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Olympus 40-150mm f4-5.6 ED (Micro Four Thirds) **£245.99**  
Olympus 14-150mm f4.0-5.6 ED (Micro Four Thirds) **£499.99**  
Olympus 75-300mm f4.8-6.7 (Micro Four Thirds) **£659**



**SD15 Body** **£584.99**

SD15 RECOMMENDED ACCESSORIES:  
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Sigma RS31 Remote Control **£24.99**  
SanDisk 8GB Extreme Pro 95MB/Sec SDHC Card **£44.99**  
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Sigma EF 610 DG Super **£209.99**  
NEW! SD1 Body **£5499**



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K-5 + 18-135mm **£1119**



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**Canon EOS 1100D**

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3.0 fps  
720p movie mode

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 1100D + 18-55mm f3.5-5.6 IS II RRP £499 **£389**

**Canon EOS 600D**

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1080p movie mode

**£50 CASHBACK\***

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CUSTOMER REVIEW: 1100D + 18-55mm II  
 ★★★★★ 'Great for a novice looking to improve'  
 Liz - South West

CUSTOMER REVIEW: 600D + 18-135mm IS  
 ★★★★★ 'An excellent product'  
 Wheelyjon - Suffolk

**Canon EOS 7D**

18.0 megapixels  
8.0 fps  
1080p movie mode

**SAVE UP TO £823 ON RRP**

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CUSTOMER REVIEW: 7D + 15-85mm  
 ★★★★★ 'Probably the best APS-C DSLR around'  
 Shuggie - Scotland

**Canon EOS 5D Mark II**

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3.9 fps  
1080p movie mode  
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 Canon LP-E6 Battery £69.95  
 Canon BG-E6 Battery Grip £219.95  
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★★★★★ CUSTOMER PRODUCT REVIEWS ★★★★★  
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CUSTOMER REVIEW: 5D Mark II + 24-105mm f4L IS USM  
 ★★★★★ 'Awesome IQ and ISO Performance'  
 JDatBollington - Cheshire

**Canon EOS 60D**

18.0 megapixels  
5.3 fps  
1080p movie mode

**SAVE UP TO £410 ON RRP**

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 60D + 17-85mm f4.0-5.6 IS USM RRP £1349.99 **£995**  
 60D + 17-55mm f2.8 IS USM RRP £1949.99 **£1539**

CUSTOMER REVIEW: 60D Body  
 ★★★★★ 'Wow, an amazing camera'  
 Adrian - UK

**Canon 1D Mark IV**

16.1 megapixels  
10.0 fps  
1080p movie mode

**SAVE £1305 ON RRP**

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CUSTOMER REVIEW: 1D Mark IV Body  
 ★★★★★ 'Stunning camera'  
 Zurg - South Wales

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Panasonic



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**MON - SAT 9am - 5pm,**  
**SUN 10am - 1pm.**









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T45 Hammerhead Flash	E++ £175

## Nikon Manual



Pentax 645 - Please Phone  
Pentax 67 - Please Phone

## Pentax Manual



## Mamiya Twin Lens Series

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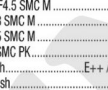
## Nikon AF

F5 Body + MF28 Back	Mint- £549
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F90X Body Only	E+ £49
F90 Body Only	E+ £39 - £69
F800 Black Body Only	E+ £59
F80 Black + MB16 Grip	E+ £69
F80 Black Body Only	As Seen / E++ £49 - £89
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F55 Chrome Body Only	As Seen / E++ £35 - £49
F60 Chrome Body Only	As Seen / E++ £15 - £49
F55 Chrome + 28-100mm	E+ £49
F55 Chrome Body Only	E+ / E++ £19 - £25
F50 Black Body Only	E+ / E++ £19 - £25
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F801 Date Body Only	E+ £29
F801 Body Only	Exc / E+ £19 - £35
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Pronea S + 30-60mm	E+ / Unused £49 - £79
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20mm F2.8 AFD	E+ £299
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28-70mm F3.5-4.5 AFD	E+ £59
28-100mm F3.5-4.5 AFD	E++ £119
28-100mm F3.5-5.6 AFD	E+ £49
28-105mm F3.5-4.5 AFD	E++ £149
35mm F2.8 AFD	E++ £199
35-70mm F3.5-4.5 AFD	E+ £299
50mm F1.8 AF	E+ / Unused £59 - £79
60mm F2.8 AFD Micro	Mint- £249
60mm F2.8 AFS ED Micro	Mint- £299
70-210mm F3.5-5.6 AFD	E+ £79
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80-200mm F2.8 ED AFD	E+ £399
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85mm F1.8 AF	Exc £159
Sigma 12-24mm F4.5-5.6 EX DG HSM	E++ £359 - £399
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Sigma 18-50mm F2.8 EX DG	Mint- £179
Sigma 20mm F1.8 EX DG	E++ £299
Sigma 20-40mm F2.8 EX DG	E+ / E++ £179 - £199
Sigma 28mm F1.8 AF	Unused £149
Sigma 28mm F1.8 AFD	E++ £199 - £259
Sigma 30mm F1.4 DC EX HSM	E++ £279
Sigma 50mm F1.4 EX DG	Mint- £299
Sigma 70-300mm F4.5-6.3 AFD	Mint- £79
Sigma 70-300mm F4.5-6.3 AFD DG	E+ £129
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Tamron 17-50mm F2.8 XR Di II	E+ £229
Tamron 20-40mm F2.7-3.5 SP Asph	Unused £229
Tamron 28-75mm F2.8 XR Di	E+ £249
Tamron 28-300mm F3.5-6.3 XR Di	E++ £159 - £199
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Tamron 55-200mm F4.5-6.3 Di Macro	Unused £299
Tamron 200-400mm F5.6 AFD	E+ £249
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Tokina 20-35mm F2.8 ATX Pro	E++ £249
Tokina 24-200mm F3.5-6.3 ATX	E+ £189
Tokina 28-70mm F2.8 ATX Pro	Exc £179
Tokina 35-70mm F2.8 ATX Pro	E+ £49
Tokina 80-400mm F4.5-5.6 ATX	E+ / E++ £199 - £249
Tokina 100-300mm F4 ATX	Unused £299
Vivitar 28-70mm F2.8 Series I	Unused £149
Zeiss 50mm F1.4 Planar ZF	E++ £429
Sigma 1.4x Apo EX Converter	E++ £119
Sigma 2x Apo EX Converter	Mint- £119
Kenko 2x Converter Pro300	E+ £79
Jessops 2x MC AFD Converter	E+ £35
TC20E Converter	E+ £99
TC16A Teleconverter	Unused £99
RC11 Speedlight Commander Set	Mint- £109
SB218 Ringflash	E++ £109 - £179
SB22 Speedlight	E+ £49
SB25 Speedlight	E+ £49
SB23 Speedlight	E++ £29 - £35
SB24 Speedlight	E+ £49
SB27 Speedlight	E+ £59
SB28 Speedlight	E+ £79
SB29 Speedlight	E+ £179
SB300D Speedlight	E+ £79
SB-R200 Speedlight	Mint- £129

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F3HP + MD4 Motor Drive	E+ / E++ £199 - £499
F3HP + MF12 Databack	E+ £249
F3HP Body Only	Exc / E+ £149 - £239
F3 + MD4 Motor Drive	E+ £199
F3 Body Only	E++ £149 - £199
F2AS Black Photomic Body Only	E+ £399
F2A Black Body Only	Exc / E+ £199 - £249
F2A Chrome Body Only	Exc / Mint- £189 - £750
F2S Black Body Only	E+ £199
F Photomic FTN Body Only	Exc £199
FM2N Black Body Only	E+ £139
FM2N Chrome Body Only	E+ / E++ £129 - £199
FM Chrome Body Only	E+ £59 - £65
FM20 Chrome Body Only	E+ £59
FM Body + MD4 Drive	E+ £59
FM20 Body Only	As Seen £39
7.5mm F3.6 Fisheye	E++ £499
28mm F3.5 PC Shift	E+ £299
28-85mm F3.5-4.5 AIS	E++ £179
35mm F2 AIS	Mint £450
35mm F2.0 AI	Exc £129
35mm F2.8 AIS	E+ £149
35mm F2.8 PC Shift	E+ / E++ £249 - £349
35mm F3.5 PC Shift	E++ £299
35-70mm F3.3-4.5 AIS	E+ / E++ £59 - £79
35-105mm F3.5-4.5 AIS	Exc / E++ £79 - £149
35-135mm F3.5-4.5 AIS	E+ £129
43-86mm F3.5 AI	E+ £75
43-86mm F3.5 Non AI	E+ £75
50-100mm F2.8 P	E++ / Unused £259 - £339
50-300mm F4.5 AI	E+ £399
55mm F2.8 AIS Micro	Mint £299
55mm F3.5 AI Micro	As Seen £59
55mm F3.5 Non AI Micro	Exc £59
70-210mm F4 Series E	As Seen / Unused £39 - £195
80-200mm F4 AIS	E+ £129
80-200mm F4.5 AIS	As Seen £49 - £59
80-200mm F2.8 Series E	E+ £49
105mm F2.5 AI	E+ £125
105mm F2.5 AIS	E+ / E++ £169 - £229
135mm F2.8 AI	E+ £69
135mm F3.5 Non AI	As Seen / E+ £39 - £65
180mm F2.8 AI	E+ £39
180mm F2.8 AI	E+ £299
180mm F2.8 ED AIS	E+ / Unused £349 - £699
200mm F2.8 ED AIS	E+ £1,999
200mm F3.5-5.6 AFD	Exc £59
200mm F4 AIS Micro	E+ £249 - £299
200mm F4 Non AI	E+ £79
200mm F5.6 Medical	E+ £399
300mm F4.5 AIS	E+ £175
300mm F4.5 ED AIS	Exc £225
300mm F4.5 Non AI	E+ / E++ £125 - £149
400mm F3.5 IFED AI	E+ £899
400mm F5.6 ED AI	Exc £949
400mm F5.6 IFED AIS	E+ £749
500mm F8 Reflex	E+ £225
Zeiss 28mm F2 Distagon ZF	Mint- £749
SB11 Speedlight	Unused £175
SB12 Speedlight	E++ £29 - £39
SB15 Speedlight	E+ / E++ £35 - £39
SB16 Speedlight	E+ / Mint- £59 - £95
SB18 Speedlight	E+ / E++ £35 - £39
SB20 Speedlight	E+ / Unused £10 - £30
SB218 Ringflash	E++ £39 - £49

## Rollei 6000 Series



## Olympus OM Series

OM4 Black + 50mm F1.8	E+ £149 - £199
OM2SP Black Body Only	E+ £119
OM2N Black Body Only	As Seen / E+ £49 - £79
OM2N Chrome + 50mm F1.8	E+ £79 - £89
OM2N Chrome Body Only	E+ £59 - £79
OM1N Chrome + 50mm F1.8	E+ £79
OM1N Chrome Body Only	As Seen / E+ £65 - £79
OM40 Black + 50mm F1.8	E+ / E++ £79
OM40 Chrome Body Only	Exc / E+ £49 - £79
OM20 Chrome + 50mm F1.8 + T20 Flash	Unused £149
OM10 Black Body Only	Unused £99
OM10 Chrome + 50mm F1.8 E+ / Unused	£49 - £109
OM10 Chrome Body + M/Adapter	E+ £39
OM10 Chrome Body + Winder	E+ £39
OM10 Chrome Body Only	E+ / Mint £29 - £59
OM101 + 50mm + 35-70mm + 70-210mm	As Seen £99
21mm F3.5 Zuiko	E+ £299
24mm F2.0 Zuiko	E+ / E++ £299 - £349
28mm F2.8 Zuiko	E+ / Unused £59 - £125
28-48mm F4 Zuiko	Exc / E+ £39 - £59
35mm F2 Zuiko	Unused £299
35mm F1.8 Zuiko	E+ £249
50mm F1.8 Zuiko	E++ £49
35-70mm F3.6 Zuiko	E+ £139
35-70mm F4 Zuiko	Exc / E+ £29 - £39
35-80mm F2.8 Zuiko	Unused £950
35-105mm F3.5-4.5 Zuiko	E+ / E++ £89 - £139
50mm F1.4 Zuiko	E+ £49
50mm F1.8 Zuiko	Mint- / Unused £229 - £75
50mm F2 Macro Zuiko	Unused £549
50mm F3.5 Macro Zuiko	E+ £99 - £119
50-250mm F3.5 Zuiko	E++ £199 - £349
65-200mm F4 Zuiko	E+ / E++ £99 - £159
75-150mm F4 Zuiko	Exc £39
80mm F4.0 Macro Zuiko	E+ £225
80mm F4.0 Macro Zuiko	E+ / E++ £159 - £189
135mm F4.5 Zuiko Macro	E++ £249
300mm F4.5 Zuiko	E+ £99
400mm F6.3 Zuiko	E++ £599
F280 Flash	E+ £49 - £75
T10 Ringflash	E+ £75
T18 Flash	E+ / E++ £10 - £15
T20 Flash	E+ / Unused £9 - £29

## Rollei 6000 Series



## 6008AF Complete

6008AF Complete	E++ £1,899
6008AF Body + Magazine	Mint- £1,099
6008 Pro Complete	E++ £699
6006 Mk1 Complete	E+ / E++ £369 - £399
SLX Mk1 Complete	As Seen / E+ £299
50mm F4 HFT	Exc / E+ £199 - £299
50mm F4 PQ EL	E++ £449
80mm F2.8 HFT	E+ / E+ £199
80mm F2.8 PQ	Unused £379
120mm F4 POS Makro	E+ £999
150mm F4 EL	E+ £499
150mm F4 HFT	Exc / E+ £159 - £249
150mm F4 HFT	E++ £249
150mm F4 PQ	E++ £549
250mm F5.6 HFT	E+ £329
350mm F5.6 HFT	E+ £349 - £499
2x HFT Converter	E+ / E++ £79
120 Insert	E+ / E++ £10 - £20
120 Magazine (6006)	Exc / E++ £59 - £89
120 Magazine (6008)	E+ £99
120 Magazine (604.5) 6008	E++ £129 - £199
Polaroid Mag 6008	E+ / Mint- £49 - £179
Polaroid Mag SLX/6002/3	E+ / E++ £29 - £49
SLX 604.5om Back	E++ £59
45 Degree Prism	E+ / Mint- £249 - £299
Aluminium Case	E+ £69
Autobellows	E+ £399
Extension Tube 68mm	E++ £69
RC120 Release	E+ £29
SCA355 Flash Adapter	E++ £35

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SRP £599



**Ffordes £499.99**  
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- 77 segment metering system
- 100% Field of view
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**Ffordes £279.99**



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SRP £609  
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T008 Colour	<del>£18.99</del> 45ml	<del>£4.99</del> 50ml, 3 for <del>£13.99</del>
T009 Colour	<del>£26.99</del> 66ml	<del>£4.99</del> 70ml, 3 for <del>£13.99</del>
T026 Black	<del>£19.99</del> 16ml	<del>£3.99</del> 20ml, 3 for <del>£10.99</del>
T027 Colour	<del>£22.99</del> 45ml	<del>£4.99</del> 50ml, 3 for <del>£13.99</del>
T036 Black	<del>£9.99</del> 10ml	<del>£3.99</del> 13ml, 3 for <del>£10.99</del>
T037 Colour	<del>£11.99</del> 25ml	<del>£4.99</del> 31ml, 3 for <del>£13.99</del>
T040 Black	<del>£39.99</del> 17ml	<del>£3.99</del> 20ml, 3 for <del>£10.99</del>
T041 Colour	<del>£29.99</del> 37ml	<del>£4.99</del> 46ml, 3 for <del>£13.99</del>
T050 Black	<del>£29.99</del> 15ml	<del>£2.99</del> 16ml, 3 for <del>£7.99</del>
T051 Black	<del>£29.99</del> 24ml	<del>£2.99</del> 26ml, 3 for <del>£7.99</del>
T052 Colour	<del>£29.99</del> 35ml	<del>£3.99</del> 39ml, 3 for <del>£10.99</del>
T053 Colour	<del>£29.99</del> 43ml	<del>£3.99</del> 48ml, 3 for <del>£10.99</del>
T0341-T0347 Set of 7	<del>£119.99</del> set of 7	Check Website.
T0341/8, each	<del>£14.99</del> 17ml	Check Website.
T0342/3/4, each	<del>£17.99</del> 17ml	Check Website.
T0345/6/7, each	<del>£17.99</del> 17ml	Check Website.
T0441-T0454 Set of 4	<del>£42.99</del> set of 4	<del>£14.99</del> , 3 sets for <del>£42.99</del>
T0441 Black	<del>£17.99</del> 13ml	<del>£4.99</del> 21ml, 3 for <del>£13.99</del>
T0452/3/4, each	<del>£9.99</del> 8ml	<del>£3.99</del> 21ml, 3 for <del>£10.99</del>
T0481-T0486 Set of 6	<del>£64.99</del> set of 6	<del>£19.99</del> , 3 sets for <del>£56.99</del>
T0481/2/3, each	<del>£14.99</del> 13ml	<del>£3.99</del> 21ml, 3 for <del>£10.99</del>
T0484/5/6, each	<del>£14.99</del> 13ml	<del>£3.99</del> 21ml, 3 for <del>£10.99</del>
T0540-T0549 Set of 8	<del>£109.99</del> set of 8	<del>£35.99</del> , 3 sets for <del>£99.99</del>
T0540 Gloss	<del>£8.99</del> 13ml	<del>£3.99</del> 21ml, 3 for <del>£13.99</del>
T0541/2/3/4, each	<del>£14.99</del> 13ml	<del>£4.99</del> 21ml, 3 for <del>£13.99</del>
T0547/8/9, each	<del>£14.99</del> 13ml	<del>£4.99</del> 21ml, 3 for <del>£13.99</del>
T0551-T0554 Set of 4	<del>£32.99</del> set of 4	<del>£14.99</del> , 3 sets for <del>£42.99</del>
T0551 Black	<del>£8.99</del> 8ml	<del>£4.99</del> 21ml, 3 for <del>£10.99</del>
T0552/3/4, each	<del>£8.99</del> 8ml	<del>£3.99</del> 21ml, 3 for <del>£10.99</del>
T0591-T0599 Set of 8	<del>£99.99</del> set of 8	Check Website.
T0591/2/3, each	<del>£12.99</del> 13ml	Check Website.
T0594/5/6, each	<del>£12.99</del> 13ml	Check Website.
T0597/8/9, each	<del>£12.99</del> 13ml	Check Website.
T0611-T0614 Set of 4	<del>£32.99</del> set of 4	<del>£14.99</del> , 3 sets for <del>£42.99</del>
T0611 Black	<del>£8.99</del> 8ml	<del>£4.99</del> 21ml, 3 for <del>£13.99</del>
T0612/3/4, each	<del>£8.99</del> 8ml	<del>£3.99</del> 21ml, 3 for <del>£10.99</del>
T0711-T0714 Set of 4	<del>£32.99</del> set of 4	<del>£14.99</del> , 3 sets for <del>£42.99</del>
T0711 Black	<del>£8.99</del> 7.4ml	<del>£4.99</del> 13ml, 3 for <del>£13.99</del>
T0712/3/4, each	<del>£8.99</del> 5.5ml	<del>£3.99</del> 13ml, 3 for <del>£10.99</del>
T0791-T0796 Set of 6	<del>£69.99</del> set of 6	Check Website.
T0791/2/3, each	<del>£11.99</del> 10ml	Check Website.
T0794/5/6, each	<del>£11.99</del> 10ml	Check Website.
T0801-T0806 Set of 6	<del>£49.99</del> set of 6	<del>£19.99</del> , 3 sets for <del>£57.99</del>
T0801/2/3, each	<del>£8.99</del> 7.4ml	<del>£3.99</del> 13ml, 3 for <del>£10.99</del>
T0804/5/6, each	<del>£8.99</del> 7.4ml	<del>£3.99</del> 13ml, 3 for <del>£10.99</del>
T0870-T0879 Set of 8	<del>£76.99</del> set of 8	Check Website.
T0870 Gloss	<del>£7.99</del> 11.4ml	Check Website.
T0871/2/3/4, each	<del>£9.99</del> 11.4ml	Check Website.
T0877/8/9, each	<del>£9.99</del> 11.4ml	Check Website.
T0961-T0969 Set of 8	<del>£78.99</del> set of 8	Check Website.
T0961/2/3/4/5, each	<del>£9.99</del> 11.4ml	Check Website.
T0966/7/8/9, each	<del>£9.99</del> 11.4ml	Check Website.
T1281-T1284 Set of 4	<del>£26.99</del> set of 4	<del>£14.99</del> set of 4
T1281 Black	<del>£7.99</del> 5.9ml	<del>£4.99</del> 13ml
T1282/3/4, each	<del>£6.99</del> 3.5ml	<del>£3.99</del> 10ml
T1291-T1294 Set of 4	<del>£37.99</del> set of 4	<del>£16.99</del> sets of 4
T1291 Black	<del>£10.99</del> 11.2ml	<del>£5.49</del> 16ml
T1292/3/4, each	<del>£9.99</del> 7ml	<del>£4.49</del> 13ml
T1571-9, each <b>NEW</b>	<del>£20.99</del> 25.9ml each or <del>£164.99</del> set of 8	
T1591-9, each <b>NEW</b>	<del>£14.99</del> 17ml each or <del>£109.99</del> set of 8	
T5591-6, each	<del>£12.99</del> 13ml each or <del>£64.99</del> set of 6	

Please call or check our website if you cannot find cartridges for your printer.

### WIDE FORMAT INK



EPSON Stylus Pro 3800, 3880	T5801/5802/5803/5804/5805/5806/5807/5808/5809/580A/B 80ml each	<del>£44.99</del>
EPSON Stylus Pro 4000, 4400, 7600, 9600	T5431/5432/5433/5434/5435/5436/5437/5438 110ml each	<del>£44.99</del>
	T5441/5442/5443/5444/5445/5446/5447/5448 220ml each	<del>£69.99</del>
EPSON Stylus Pro 4800, 4880:		
	T6051/6052/6053/6054/6055/6056/605C/6057/6138/6059 110ml	<del>£44.99</del>
	T6061/6062/6063/6064/6065/6066/606C/6067/6148/6069 220ml	<del>£69.99</del>
EPSON Stylus Pro 7800, 7880, 9800:		
	T6021/6022/6023/6024/6025/6026/602C/6027/6118/6029 110ml	<del>£44.99</del>
	T6031/6032/6033/6034/6035/6036/603C/6037/6128/6039 220ml	<del>£69.99</del>

Please call or check our website for further details

Canon Compatibles	
BC13e Black 26ml	<del>£2.99</del>
BC16 B/C/M/Y 15ml	<del>£2.99</del>
BC18 PC/PM/R/G 15ml	<del>£2.99</del>
PG15 Black 29ml	<del>£4.99</del>
CL18 B/C/M/Y/PC/PM 15ml	<del>£3.99</del>
PG1520 Black 19ml	<del>£4.99</del>
CL1521 B/C/M/Y/GY 9ml	<del>£3.99</del>
PG1525 Black 19ml	<del>£4.99</del>
CL1526 B/C/M/Y/GY 9ml	<del>£3.99</del>
BC124 Black 9ml	<del>£1.99</del>
BC124 Colour 18ml	<del>£2.99</del>
PG37 Black 12ml	<del>£9.99</del>
PG40 Black 12ml	<del>£13.99</del>
PG50 Black 28ml	<del>£12.99</del>
PG510 Black 11.5ml	<del>£13.99</del>
PG512 Black 12ml	<del>£14.99</del>
CL38 Black 16ml	<del>£12.99</del>
CL41 Colour 16ml	<del>£16.99</del>
CL51 Colour 24ml	<del>£14.99</del>
CL512 Colour 11.5ml	<del>£15.99</del>
CL513 Colour 15ml	<del>£16.99</del>

Canon Originals	
BC13e Black 26ml	<del>£10.99</del>
BC16 B/C/M/Y 13ml	<del>£9.99</del>
BC18 PC/PM/R/G 13ml	<del>£9.99</del>
PG15 Black 26ml	<del>£12.99</del>
CL18 B/C/M/Y 13ml	<del>£11.99</del>
CL18 PC/PM/R/G 13ml	<del>£11.99</del>
PG17 Black 25ml	<del>£11.99</del>
PG19 Clear 191ml	<del>£11.99</del>
PG19 PB/M/B/C/M/Y 14ml	<del>£10.99</del>
PG19 PC/PM/R/G/Y 14ml	<del>£10.99</del>
PG1520 Black 19ml	<del>£9.99</del>
CL1521 B/C/M/Y/GY 9ml	<del>£8.99</del>
PG1525 Black 19ml	<del>£8.99</del>
CL1526 B/C/M/Y/GY 9ml	<del>£8.99</del>
PG37 Black 11ml	<del>£12.99</del>
PG40 Black 12ml	<del>£15.99</del>
PG50 Black 22ml	<del>£22.99</del>
PG510 Black 9ml	<del>£11.99</del>
PG512 Black 15ml	<del>£11.99</del>
CL38 Colour 9ml	<del>£16.99</del>
CL41 Colour 12ml	<del>£19.99</del>
CL51 Colour 21ml	<del>£26.99</del>
CL52 Photo 21ml	<del>£19.99</del>
CL511 Colour 9ml	<del>£15.99</del>
CL513 Colour 13ml	<del>£19.99</del>
KP-361P Ink & Paper	<del>£12.99</del>
KP-1081P Ink & Paper	<del>£29.99</del>

#### Dell Cartridges

Comprehensive range of Original and Compatible Dell cartridges in stock - call or check website for details!

HP Compatibles	
No.15 Black 46ml	<del>£4.99</del>
No.21 Black 10ml	<del>£7.99</del>
No.22 Colour 21ml	<del>£11.99</del>
No.45 Black 45ml	<del>£4.99</del>
No.56 Black 24ml	<del>£9.99</del>
No.57 Colour 24ml	<del>£12.99</del>
No.58 Photo 24ml	<del>£12.99</del>
No.78 Colour 36ml	<del>£9.99</del>
No.88XL B/C/M/Y each	<del>£9.99</del>
No.110 Colour 12ml	<del>£10.99</del>
No.300XL Black 18ml	<del>£14.99</del>
No.300XL Colour 18ml	<del>£16.99</del>
No.336 Black 10ml	<del>£7.99</del>
No.337 Black 21ml	<del>£10.99</del>
No.338 Black 21ml	<del>£10.99</del>
No.339 Black 34ml	<del>£12.99</del>
No.342 Colour 12ml	<del>£10.99</del>
No.343 Colour 21ml	<del>£12.99</del>
No.344 Colour 21ml	<del>£14.99</del>
No.348 Photo 21ml	<del>£12.99</del>
No.350XL Black 21ml	<del>£14.99</del>
No.351XL Colour 30ml	<del>£16.99</del>
No.363 B/C/M/Y/PC/PM each	<del>£4.99</del>
No.364 Black 10ml	<del>£6.99</del>
No.364 PB/C/M/Y each	<del>£5.99</del>

HP Originals	
No.21 Black 5ml	<del>£11.99</del>
No.22 Colour 5ml	<del>£14.99</del>
No.38 All Colours 27ml each	<del>£26.99</del>
No.56 Black 19ml	<del>£16.99</del>
No.57 Colour 17ml	<del>£24.99</del>
No.58 Photo 17ml	<del>£22.99</del>
No.100 Grey 15ml	<del>£22.99</del>
No.110 Colour 15ml	<del>£18.99</del>
No.300 Black 4ml	<del>£10.99</del>
No.301 Black 3ml	<del>£9.99</del>
No.301 Colour 3ml	<del>£11.99</del>
No.337 Black 11ml	<del>£17.99</del>
No.338 Black 11ml	<del>£17.99</del>
No.339 Black 21ml	<del>£24.99</del>
No.343 Colour 7ml	<del>£18.99</del>
No.344 Colour 14ml	<del>£26.99</del>
No.350 Black 4.5ml	<del>£11.99</del>
No.351 Colour 3.5ml	<del>£13.99</del>
No.363 Black 6ml	<del>£13.99</del>
No.363 B/C/M/Y/PC/PM each	<del>£8.99</del>
No.364 Black 8ml	<del>£8.99</del>
No.364 PB/C/M/Y 3ml each	<del>£7.99</del>
No.901 Black 4ml	<del>£11.99</del>
No.901 Colour 9ml	<del>£16.99</del>
No.920XL Black 49ml	<del>£19.99</del>
No.920XL C/M/Y 6ml each	<del>£8.99</del>
No.940XL Black 49ml	<del>£23.99</del>
No.940XL C/M/Y 16ml each	<del>£15.99</del>

Many more in stock!

Lexmark Compatibles	
No.1 Colour	<del>£10.99</del>
No.2 Colour	<del>£11.99</del>
No.3 Black	<del>£14.99</del>
No.16 Black	<del>£9.99</del>
No.26 Colour	<del>£12.99</del>
No.27 Colour	<del>£11.99</del>
No.31 Photo	<del>£11.99</del>
No.32 Black	<del>£9.99</del>
No.33 Colour	<del>£11.99</del>
No.34 Black	<del>£11.99</del>
No.35 Colour	<del>£12.99</del>

Lexmark Originals	
No.1 Colour	<del>£16.99</del>
No.14 Colour	<del>£16.99</del>
No.15 Colour	<del>£18.99</del>
No.17 Black	<del>£13.99</del>
No.23 Black	<del>£14.99</del>
No.24 Colour	<del>£16.99</del>
No.27 Colour	<del>£14.99</del>
No.28 Colour	<del>£13.99</del>
No.29 Colour	<del>£14.99</del>
No.32 Black	<del>£15.99</del>
No.33 Colour	<del>£17.99</del>
No.36 Black	<del>£16.99</del>
No.37 Colour	<del>£18.99</del>
No.43 Colour	<del>£22.99</del>
No.44 Black	<del>£18.99</del>
No.100 Black	<del>£12.99</del>
No.100 Cyan / Mag / Yellow	<del>£7.99</del>

Many more in stock!

Brother Compatibles	
LC900 Black	<del>£3.99</del>
LC900 C/M/Y	<del>£2.99</del>
LC900 Set of 4	<del>£11.99</del>
LC970 / 1000 Black	<del>£3.99</del>
LC970 / 1000 C/M/Y	<del>£2.99</del>
LC970 / 1000 Set of 4	<del>£11.99</del>
LC980 / 1100 Black	<del>£3.99</del>
LC980 / 1100 C/M/Y	<del>£2.99</del>
LC980 / 1100 Set of 4	<del>£11.99</del>
LC985 Black	<del>£3.99</del>
LC985 C/M/Y	<del>£2.99</del>
LC985 Set of 4	<del>£11.99</del>

Brother originals also in stock!

Kodak Original Ink / Paper	
ESP Black Series 10 Ink	<del>£6.99</del>
ESP Colour Series 10 Ink	<del>£11.99</del>
ESP Black Series 30 Ink	<del>£6.99</del>
ESP Colour Series 30 Ink	<del>£11.99</del>
ESP Black/Colour Twin Pack	<del>£17.99</del>

Kodak Photo Paper also in stock!

### PHOTOGRAPHIC PAPERS

# ILFORD

As an **Ilford Pro Centre**, we stock the complete range of Ilford Gallerie papers, including A2, 17, 24 and 44 inch rolls. Below is just a selection:

<b>Photo Glossy Paper</b> 200g, A4, 20	<b>+20 FREE</b>	<b>£7.99</b>
<b>Smooth Gloss</b> 290g, 6x4, 100 sheets		<b>£17.99</b>
<b>Smooth Gloss</b> 290g, 7x5, 100 sheets		<b>£23.99</b>
<b>Smooth Gloss</b> 290g, A4, 25	<b>+10 FREE</b>	<b>£12.99</b>
<b>Smooth Gloss</b> 290g, A4, 100		<b>£35.99</b>
<b>Smooth Gloss</b> 290g, A3, 25 sheets		<b>£27.99</b>
<b>Smooth Gloss</b> 290g, A3+, 25 sheets		<b>£29.99</b>
<b>Smooth Pearl</b> 290g, 6x4, 100 sheets		<b>£17.99</b>
<b>Smooth Pearl</b> 290g, 7x5, 100 sheets		<b>£23.99</b>
<b>Smooth Pearl</b> 290g, A4, 25	<b>+10 FREE</b>	<b>£12.99</b>
<b>Smooth Pearl</b> 290g, A4, 100		<b>£35.99</b>
<b>Smooth Pearl</b> 290g, A3, 25 sheets		<b>£27.99</b>
<b>Smooth Pearl</b> 290g, A3+, 25 sheets		<b>£29.99</b>
<b>Smooth Fine Art</b> 190g, A4, 10 sheets		<b>£12.99</b>
<b>Smooth H/weight Matt</b> 200g, A4, 50 sheets		<b>£12.99</b>
<b>Smooth Lustre Duo</b> 280g, A4, 25 sheets		<b>£14.99</b>
<b>Gold Fibre Silk</b> 310g, A4, 50 sheets		<b>£44.99</b>

**ICC profiles available for all Ilford papers**



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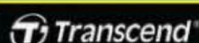
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Winners of the Amateur Photographer 2011 GOLD "Good Service Award"

## MEMORY



### Compact Flash

2GB 20MB/s	£14.99	£8.99
4GB 20MB/s	£19.99	£10.99
8GB 20MB/s	£24.99	£16.99
16GB 20MB/s	£34.99	£26.99

### SD Cards

2GB	£8.99	£3.99
4GB Class 10	£19.99	£6.99
8GB Class 10	£29.99	£9.99
16GB Class 10	£49.99	£19.99

### USB Pen Drives

2GB Transcend	£8.99	£4.69
4GB Transcend	£14.99	£4.99
8GB Transcend	£19.99	£8.99
16GB Transcend	£34.99	£16.99

## Lexar

### Compact Flash

8GB 50MB/s	£148.46	£38.99
8GB 90MB/s	£177.38	£47.99
16GB 50MB/s	£204.25	£68.99
16GB 90MB/s	£271.30	£94.99

### SD Cards

8GB Class 10	£78.46	£21.99
16GB Class 10	£138.73	£40.99

## SanDisk

### Sandisk Ultra 30MB/s

4GB 30MB/s	£21.76	£14.99
8GB 30MB/s	£36.12	£23.99
16GB 30MB/s	£70.06	£46.99

### Sandisk Extreme 40/60MB/s

4GB 40MB/s	£36.34	£21.99
8GB 40MB/s	£67.02	£38.99
16GB 40MB/s	£116.19	£68.99
32GB 60MB/s	£208.89	£134.99

### Sandisk Blue C2: 5MB/s

2GB 5MB/s	£8.27	£4.99
4GB 5MB/s	£12.41	£6.49
8GB 5MB/s	£21.10	£11.99

### Sandisk Ultra C4: 15MB/s

2GB 15MB/s	£9.57	£5.99
4GB 15MB/s	£15.86	£7.99
8GB 15MB/s	£27.65	£14.99
16GB 15MB/s	£52.22	£28.99

### Sandisk Extreme Pro UHS1: 45MB/s

8GB 45MB/s	£54.84	£27.49
16GB 45MB/s	£103.58	£58.99

### xD Picture Cards

2GB Olympus	£24.99	£14.99
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## BATTERIES & CHARGERS

### Standard Rechargeables

High-power Ni-MH rechargeable AA and AAA batteries - all sold in packs of 4.	
AAA 1000mAh Duracell	£6.99
AAA 2450mAh Duracell	£6.99
AA 2700mAh GP	£9.99
AA 2850mAh Ansmann	£13.99
AA 2900mAh Delkin	£14.99

### ReCyCo+ Rechargeables

New technology, combining the benefits of Alkaline and Ni-MH rechargeable batteries. They come pre-charged, retain 90% of their charge after 6 months, and last 4 times as long as alkaline batteries!	
AAA 850mAh equivalent (4)	£5.99
AA 2050mAh equivalent (4)	£7.99

### Ultimate Lithium

ReCyko+ Rechargeables	
New technology, combining the benefits of Alkaline and Ni-MH rechargeable batteries. They come pre-charged, ready to use.	

### Coin Cells, etc

A comprehensive range of specialist batteries - see our website for full range.	
CR123A Energizer Lithium (1)	£1.99
CR2 Energizer Lithium (1)	£3.99
2CR5 Energizer Lithium (1)	£5.99
CRV3 Energizer Lithium (1)	£1.99
LR44 Energizer Alkaline (2)	£1.99
CR2025, CR2032 etc	£1.99

### Full range of coin cells in stock

### Dedicated Li-ion charger

A dedicated Li-ion charger, able to charge most camera batteries. Mains cable, plus 12V car charger.	£14.99
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### Universal Charger

The NEW Hahnel UniPal charger is able to charge AA, AAA, Li-ion batteries, cameras, phones, iPods and more! Mains power cable, plus 12V car charger. Full details on our website.	£19.99
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### Battery Grips

A range of professional battery grips from Hahnel. All can take two Li-ion batteries for double the battery power. AA battery compartment and/or vertical shutter release and/or infrared remote, depending on model.	
For Canon 5D MkII:	£99.99
For Canon 7D:	£99.99
For Canon 30/40/50D:	£99.99
For Canon 60D:	£99.99
For Canon 450D:	£69.99
For Canon 500D:	£69.99
For Canon 550D:	£69.99
For Canon 1000D:	£69.99
For Nikon D40/D60:	£39.99
For Nikon D80/D90:	£99.99
For Nikon D300/D700:	£99.99
For Nikon D7000:	£99.99

E&OE. Prices may be subject to change, but hopefully not!

## BATTERIES

### Camera Batteries

A comprehensive range of rechargeable Li-ion batteries. Manufactured by respected independent battery manufacturers Ennergizer and Blumax. All batteries come with a 2 year guarantee.

### NB-1L for Canon

NB-1L for Canon	£9.99
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### NB-2L/LH for Canon

NB-2L/LH for Canon	£9.99
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### NB-3L for Canon

NB-3L for Canon	£9.99
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### NB-4L for Canon

NB-4L for Canon	£9.99
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### NB-5L for Canon

NB-5L for Canon	£9.99
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### NB-6L for Canon

NB-6L for Canon	£9.99
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### NB-7L for Canon

NB-7L for Canon	£12.99
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### NB-8L for Canon

NB-8L for Canon	£9.99
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### NB-9L for Canon

NB-9L for Canon	£9.99
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### BP-511 for Canon

BP-511 for Canon	£12.99
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### LP-E5 for Canon

LP-E5 for Canon	£12.99
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### LP-E6 for Canon

LP-E6 for Canon	£29.99
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### LP-E8 for Canon

LP-E8 for Canon	£15.99
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### LP-E10 for Canon

LP-E10 for Canon	£12.99
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### NP40 for Fuji

NP40 for Fuji	£9.99
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### NP45 for Fuji

NP45 for Fuji	£9.99
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### NP50 for Fuji

NP50 for Fuji	£9.99
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### NP60 for Fuji

NP60 for Fuji	£9.99
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### NP80 for Fuji

NP80 for Fuji	£9.99
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### NP95 for Fuji

NP95 for Fuji	£9.99
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### NP140 for Fuji

NP140 for Fuji	£12.99
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### NP150 for Fuji

NP150 for Fuji	£19.99
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### NP200 for Minolta

NP200 for Minolta	£9.99
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### NP400 for Minolta

NP400 for Minolta	£12.99
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### EN-EL1 for Nikon

EN-EL1 for Nikon	£9.99
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### EN-EL2 for Nikon

EN-EL2 for Nikon	£9.99
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### EN-EL3/3A for Nikon

EN-EL3/3A for Nikon	£9.99
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### EN-EL3E for Nikon

EN-EL3E for Nikon	£15.99
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### EN-EL5 for Nikon

EN-EL5 for Nikon	£9.99
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### EN-EL6 for Nikon

EN-EL6 for Nikon	£12.99
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### EN-EL10 for Nikon

EN-EL10 for Nikon	£9.99
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### EN-EL11 for Nikon

EN-EL11 for Nikon	£9.99
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### EN-EL12 for Nikon

EN-EL12 for Nikon	£9.99
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### EN-EL19 for Nikon

EN-EL19 for Nikon	£12.99
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### LI10B/12B for Olympus

LI10B/12B for Olympus	£9.99
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### LI40B/42B for Olympus

LI40B/42B for Olympus	£9.99
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### LI50B for Olympus

LI50B for Olympus	£9.99
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### BLM-1 for Olympus

BLM-1 for Olympus	£12.99
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### BLS-1 for Olympus

BLS-1 for Olympus	£12.99
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### CGA-S005 for Panasonic

CGA-S005 for Panasonic	£9.99
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### CGR-S006 for Panasonic

CGR-S006 for Panasonic	£9.99
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## SQUARE FILTERS

### P-Type Filter System

The P-Type square/rectangular filter system consists of three parts:

- 1) An adapter ring that screws onto the front of your lens
- 2) A filter holder clips onto the ring
- 3) One or more P-Type (84mm wide) filters

### P-Type Adapter Rings

49mm Adapter Ring	£4.99
52mm Adapter Ring	£4.99
55mm Adapter Ring	£4.99
58mm Adapter Ring	£4.99
62mm Adapter Ring	£4.99
67mm Adapter Ring	£4.99
72mm Adapter Ring	£4.99
77mm Adapter Ring	£4.99
82mm Adapter Ring	£4.99

### P-Type Holders

Holder Standard	£5.99
Holder Wide Angle	£9.99
Holder Modular	£9.99
Hood Bellows	£34.99
A to P Type Adapter	£9.99

### P-Type Bellows Hood

A new design of Bellows Hood that slots into the front of a standard P-Type Holder.

### P-Type Filter Wallet

A smooth cushioned filter wallet, to protect and store up to 8 P-Type filters.

### We also stock Z-Pro (100mm) and A-Type (67mm) filters, holders and adapter rings

### P-Type Neutral Density Filter Kit

Neutral Density filters have a multitude of uses - from increasing detail in landscapes and reducing over-exposed skies, to creating stunning motion scenes by reducing shutter speeds. Here's a kit which includes all the popular ND filters, and everything you need to get started! The kit contains: 1x ND2 Filter, 1x ND2 Soft Graduated Filter, 1x ND4 Filter, 1x ND4 Soft Graduated Filter, 1x P-Type Filter Holder, 1x P-Type Adapter Ring of your choice (49-82mm). Just £49.99 - saving nearly £5 on the individual prices.

## LENS HOODS & CAPS

### Bayonet-Fit Lens Hoods

ES-62 Canon 50/1.8	£9.99
ES-7111 Canon 50/1.4	£9.99
ET-60 Canon 75-300/4.5-5.6	£9.99
ET-65B Canon 70-300/4.5-5.6	£9.99
ET-67 Canon 100/2.8 Macro	£9.99
ET-67B Canon 60/2.8	£9.99
EW-60 Canon 18-55 IS	£7.99
EW-73B Canon 17-85 IS	£9.99
EW-78BII Canon 28-135 IS	£9.99
EW-78D Canon 18-200 IS	£9.99
EW-78E Canon 18-55 IS	£12.99
EW-83E Canon 17-40/4.0	£12.99
EW-83J Canon 17-55/2.8	£12.99
HB-25 Nikon 24-85, 24-120	£12.99
HB-37 Nikon 55-200 VR	£7.99
HB-45 Nikon 18-55 VR	£7.99
SH-006 Sony 18-70/3.5-5.6	£9.99
SH-108 Sony 18-55/3.5-5.6	£9.99

A comprehensive range of aftermarket matt black bayonet-fit lens hoods for Canon, Nikon and Sony lenses.

### Screw-Fit Lens Hoods

52mm Shaped Petal Hood	£6.99
55mm Shaped Petal Hood	£6.99
58mm Shaped Petal Hood	£6.99
62mm Shaped Petal Hood	£7.99
67mm Shaped Petal Hood	£7.99
72mm Shaped Petal Hood	£9.99
77mm Shaped Petal Hood	£9.99
82mm Shaped Petal Hood	£11.99
46mm Rubber Hood	£3.99
52mm Rubber Hood	£3.99
55mm Rubber Hood	£3.99
58mm Rubber Hood	£3.99
62mm Rubber Hood	£4.99
67mm Rubber Hood	£4.99
72mm Rubber Hood	£5.99
77mm Rubber Hood	£5.99

### Lens Caps

30mm, 37mm, 40mm, 43mm, 46mm, 49mm, 52mm, 55mm, 58mm, 62mm, 67mm, 72mm, 77mm, 82mm, 86mm, 95mm	
£3.99 each	

### We also stock a range of body caps and rear lens caps for Canon, Nikon, Olympus, Sony, Pentax, etc

## SPIRIT LEVELS

### Bubble Spirit Levels

These simply mount onto the hot shoe of a DSLR camera.

### Twin Axis Normal Hotshoe

Twin Axis Normal Hotshoe	£7.99
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### Twin Axis Sony Hotshoe

Twin Axis Sony Hotshoe	£7.99
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### Triple Axis Normal Hotshoe

Triple Axis Normal Hotshoe	£9.99
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### Triple Axis Sony Hotshoe

Triple Axis Sony Hotshoe	£9.99
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### Sensor Cleaning - DRY

Sensor Loupe 7x with LED	£69.99
ZEIION Anti-static Blower	£37.99
SL788 Arctic Butterfly	£69.99

### Sensor Cleaning - WET

Cleaning Solution (7.5ml)	£15.99
Cleaning Swabs (12)	£29.99
EZ Kit (1ml Solution, 4 Swabs)	£14.99

### Massive range of cleaning equipment on our website and in stock.

### P-Type Filters (84mm wide)

	
<b>P-Type Filters (84mm wide)</b>	
<b>Circular Polarizing</b>	<b>£29.99</b>
<b>Infra Red R72</b>	<b>£29.99</b>
<b>ND2</b>	<b>£9.99</b>
<b>ND4</b>	<b>£9.99</b>
<b>ND2 Soft Graduated</b>	<b>£11.99</b>
<b>ND4 Hard Graduated</b>	<b>£11.99</b>
<b>ND4 Soft Graduated</b>	<b>£11.99</b>
<b>ND4 Hard Graduated</b>	<b>£11.99</b>
<b>Light Blue Graduated</b>	<b>£11.99</b>





# Lowering the Cost of Photography

We are a small, family owned and run company, specialising in photographic consumables - and proud winners of the 2011 Good Service Award. We are located in Leamington Spa, in the heart of Warwickshire - if you are passing, please pop into our shop, and meet Cooper - our new office dog! To find out more about us (or Cooper) you can also find us on [www.facebook.com/premierink](http://www.facebook.com/premierink)

01926 339977 [www.premier-ink.co.uk](http://www.premier-ink.co.uk)



## CAMERA BAGS

**thinkTANK** photo

Official UK ThinkTank stockist

As one of the UK's leading ThinkTank stockists, we aim to carry the entire range in stock at all times. If you're unsure as to exactly which bag you need, or simply wish to examine the superior quality of the ThinkTank range, why not visit our showroom in Leamington Spa. We will also match or beat any ThinkTank price for any other UK stockist.

<b>Retrospective 20</b> £128	<b>Sling-O-Matic 20</b> £126	<b>Digital Holster 50 V2.0</b> £66
<b>Airport International V2.0</b> £258	<b>Streetwalker</b> £109	<b>Urban Disguise 50 V2.0</b> £141

**Billingham**

Authorised Billingham Specialist Centre

Billingham's exquisite range of hand-made camera bags are now on display in our recently-extended showroom in Leamington Spa. If you are considering investing in a professional camera bag that will protect your equipment for many years to come, we strongly recommend first-hand inspection of the Billingham range - only then can Billingham's preoccupation with excellence and attention to detail be fully appreciated.

<b>The Hadley Pro</b> £149.99	<b>The 5 Series</b> A firm favourite with serious photographers the world over, the '5 Series' range comprises four sizes of bag, available in Khaki & Tan, Black & Tan, or Black & Black.
<b>More Billingham Bags</b>	<b>The 07 Range</b> New Billingham bags for 2009, constructed from FibreNyte - a lighter alternative to traditional Canvas. Available in Khaki & Chocolate or Black & Black.
<b>NEW Billingham f2.8</b> £139.99 <b>NEW Billingham f1.4</b> £156.99 <b>The Hadley Digital</b> £99.99 <b>The Packaging</b> £224.99 <b>The Classic 550</b> £474.99	<b>Billingham 225</b> £229.99 <b>Billingham 335</b> £239.99 <b>Billingham 445</b> £259.99 <b>Billingham 555</b> £289.99
<b>Billingham Accessories</b>	<b>Billingham 107</b> £229.99 <b>Billingham 307</b> £249.99 <b>Billingham 307</b> £269.99
<b>Superflex Inserts (all)</b> £12.99 <b>Shoulder Pads</b> £17.99 <b>Tripod Straps</b> £15.99	

<b>Kata 3N1-10</b> External Dimensions: 41.0 x 22.0 x 16.5cm Internal Dimensions: 28.5 x 19.0 x 15.0cm £64.99	<b>Kata 3N1-20</b> External Dimensions: 44.0 x 23.5 x 19.0cm Internal Dimensions: 31.5 x 22.0 x 16.0cm £74.99
<b>Kata 3N1-30</b> External Dimensions: 45.0 x 32.0 x 19.0cm Internal Dimensions: 32.5 x 22.5 x 16.0cm £84.99	<b>Kata 3N1-33</b> £119.99 Based in the award-winning 3N1-30, the new 3N1-33 has additional features, the most notable being a 15" laptop compartment. See website for details.
<b>Kata 3N1-Tripod Holder</b> £16.99 For Kata 3N1 bags.	

**IMPROVED - Kata DPS Digital Rucksack**

The Kata DPS Digital Rucksack gives top level protection to two DSLRs with mounted lenses, 3-4 single lenses, a flash, as well as your personal items. The rucksack can be converted from a camera bag into a daypack when not shooting by removing the padded bottom camera insert. When used as a camera bag, the main compartment will hold your DSLR in a top grip position while the modular dividers system separates, organises and protects your lenses, flashes and other accessories. There is an included rain cover which folds neatly away, and an ergonomic chest belt and balancing waist strap for maximum comfort while transporting your gear.

**DR-465i** £59.99   **DR-466i** £64.99   **DR-467i** £69.99

<b>DC Shoulder Bags</b> A range of understated, yet surprisingly roomy and well-padded shoulder bags, each including a detachable rain cover.	<b>DL10 Grip Hostler</b> £21.99 <b>DL12 Grip Hostler</b> £25.99 <b>DL14 Grip Hostler</b> £31.99 <b>DL16 Grip Hostler</b> £49.99 <b>DL18 Grip Hostler</b> £59.99 <b>CS15 Camera Satchel</b> £99.99 <b>CS17 Camera Satchel</b> £99.99 <b>PR420 Press Reporter Bag</b> £109.99 <b>PR460 Press Reporter Bag</b> £149.99 <b>DL210 Bumblebee Backpack</b> £94.99 <b>PL74 FlyBy Rolling Bag</b> £219.99
<b>DC-435</b> £29.99 <b>DC-437</b> £32.99 <b>DC-439</b> £36.99 <b>DC-441</b> £39.99 <b>DC-443</b> £42.99 <b>DC-445</b> £49.99	<b>Insertrolley</b> £52 Compatible with many Kata bags

Entire Kata range available!

## RAIN COVERS

<b>OpTech Rainsleeve</b> Unique eyespice opening and drawstring lens enclosure. Two versions, for DSLRs with or without a flashgun. 2 per pack.	<b>Kata Elements Covers</b> Protect your camera against the elements!	<b>Think Tank Hydrophobia</b> The ultimate protection from the weather!
<b>Standard Flash</b> £5.99 <b>Flash</b> £7.99	<b>E690 Small</b> £36.99 <b>E702 Large</b> £51.99	<b>70-200</b> £109.00 <b>70-200 Flash</b> £114.00 <b>300-600</b> £118.00

**VANGUARD**

**Vanguard UP-Rise Messengers**  
A brand new range of innovative shoulder bags. Concealed quick-access top opening, laptop compartment, customisable and removable interior - packed with features. Clever UP-Rise expanding zip system allows bag to increase or reduce in size!

**UP-Rise 28 Messenger** £49.99  
**UP-Rise 33 Messenger** £59.99  
**UP-Rise 38 Messenger** £69.99

**Vanguard Outlawz Pro Zoomsters**  
A range of fully featured pro spec zoomster shoulder bags, complete with rain cover, side pockets, internal cradle, water bottle holder and accessory clips.

**Outlawz 16Z** £49.99  
**Outlawz 17Z** £59.99

**Vanguard Adaptor Backpacks**  
Versatile backpack that converts to slingpack for either left or right handed users. Dual quick-access openings, integrated tripod holder, multiple accessory pockets, customisable interior, and padded breathable fabric on back.

**Adaptor 41** £59.99  
**Adaptor 46** £69.99  
**Adaptor 48** £79.99

**Vanguard UP-Rise Range**  
Gold award winning range of backpacks, slingpacks and shoulder bags, all featuring the patented UP-Rise expanding system. Smart & discreet. Durable & practical.

**UP-Rise 14Z Zoomster** £29.99  
**UP-Rise 15Z Zoomster** £34.99  
**UP-Rise 34 Slingbag** £49.99  
**UP-Rise 43 Slingbag** £59.99  
**UP-Rise 45 Backpack** £69.99  
**UP-Rise 46 Backpack** £84.99  
**UP-Rise 48 Backpack** £94.99

**BIIN 37 Slingpack** £29.99  
**BIIN 47 Slingpack** £39.99  
**BIIN 50 Backpack** £44.99  
**BIIN 59 Backpack** £54.99  
**Heralder 28 Shoulder Bag** £89.99  
**Heralder 38 Shoulder Bag** £129.99

Entire Vanguard range available!

**tamrac**

**Expedition Backpack**  
Tamrac's famous range of Expedition backpacks have recently been upgraded and can carry huge amounts of camera kit in comfort. Fully MAS compatible.

**Expedition 4X** £89.99  
**Expedition 5X** £104.99  
**Expedition 6X** £119.99  
**Expedition 7X** £149.99  
**Expedition 8X** £169.99  
**Expedition 9X** £189.99

**Velocity Sling**  
A unique design of sling backpack, that opens away from your body for even faster access to your gear!

**Velocity 6X** £29.99  
**Velocity 7X** £39.99  
**Velocity 8X** £44.99  
**Velocity 9X** £49.99  
**Velocity 10X** £59.99

**Modular Accessory System**  
The patented Tamrac Modular Accessory System (MAS) allows photographers to customise their bags using accessories that attach to MAS slots on Tamrac bags.

**Water Bottle With Holder** £12.99  
**Lens Case Pro 50** £11.99  
**Lens Case Pro 100** £12.99  
**Lens Case Pro 200** £13.99  
**Flash Case Medium** £10.99  
**Flash Case Large** £11.99  
**Rain Cover Medium** £19.99  
**Rain Cover Large** £23.99  
**MAS Belt Medium** £19.99

**Aero Speed Pack**  
Dual access, dual compartment photo backpacks, with front and side openings.

**SpeedPack 75** £62.99  
**SpeedPack 85** £82.99

**SEKONIC**

**L758DR DigitalMaster** £439.99  
**L398A Deluxe III** £134.99

**L208 TwinMaster**  
Analogue, incident and reflected, ambient light only.  
£74.99

**L3085 FlashMate**  
Digital, incident and reflected, ambient and flash light.  
£149.99

**L358 FlashMaster**  
Digital, incident and reflected, simultaneous ambient and flash light, rotating head.  
£219.99

**RT-32 Radio Trigger Module** £89.99  
**Grey Card** £27.99  
**Profile Target SEPT2** £129.99

**GOSSEN**

**Gossen DigiSix** £119.95  
**Gossen DigiFlash** £139.95  
**WAS £199.95** £169.95

**Digital, incident and reflected, ambient and flash light. Multiple flash calculation, convenient rotating head.**

**FLASH TRIGGERS**

**Hahnel Combi TF**  
Combination wireless remote shutter release and radio flash trigger. 2.4GHz, 100m range, 4 channels, 5 models available.  
**Receiver & Transmitter Extra Receivers** £34.99

**Yongnuo CTR-301P**  
Radio flash trigger with infrared sensor. 433MHz, 30m range, 4 channels.  
**Receiver & Transmitter Extra Receivers** £29.99

**Yongnuo RF-602, RF-603, YN-160, YN-460II and YN-560** also available soon! Please check website...

**JJC JF Flash Trigger**  
Radio flash trigger, 433MHz, 20m range, 4 ch.  
**Receiver & Transmitter Extra Receivers** £24.99

**PocketWizard**  
Full range of Pocket Wizard cables stocked.  
**2x Plus II** £269  
**1x MiniTT1 2x FlexTT5** £499

## FLASH GUNS

**Nissin**

**12 free Energizer batteries with every Nissin Flashgun**

**Nissin Di866 Speedlite**  
The world's most powerful hotshoe flashgun! A guide number of 60m/ISO100 and a clear, full colour LCD panel, makes this advanced unit simple to use. Designed for use with Canon and Nikon digital SLRs, the Nissin Di866 fully supports Canon's E-TTL and Nikon's i-TTL functionality with the option for full manual overrides. Covering a range of focal lengths from 24-105mm and including a speedlite in flash shoe, the Nissin Di866 is the flashgun professionals have been waiting for. Includes built-in USB port for down-loading images.

**£239.99 £199.99**

**Nissin Di622 MkII Speedlite**  
MkII version - new for 2011. An impressively powerful flash, with a guide number of 44m/ISO100, incredible specification, including bounce and swivel flash head, wide angle diffuser and catch light reflector, wireless slave flash with power ratio, active AF assist light and energy saving auto-off circuit.

**£149.99 £129.99**

**Nissin Di466 Speedlite**  
An advanced and versatile flash gun, with a guide number of 33m/ISO100. Featuring the latest TTL flash control technology, specification includes adjustable bounce flash head, wide angle diffuser and catch light reflector, wireless remote slave flash on manual mode and energy saving auto-off circuit.

**£92.99 £79.99**

**Metz**

**12 free Energizer batteries with every Metz Flashgun**

**NEW METZ RANGE**

**Metz 24 AF-1** £59.99  
**Metz 36 AF-5** £79.99  
**Metz 44 AF-1** £149.99  
**Metz 50 AF-1** £189.99  
**Metz 58 AF-2** £299.99

Dedicated TTL models for Canon, Nikon, Sony, Olympus, Panasonic, Pentax and Samsung! Full specifications at [www.premier-ink.co.uk](http://www.premier-ink.co.uk)

**Marumi DRF14 Ring Flash**  
The highly-acclaimed Marumi Ring Flash is a true ring flash - it consists of a main control unit and a separate ring light which connects to the main flash head. The flash has a 14mm/ISO100 guide number and features auto saving auto-off circuit. The lens mount is 52mm, step-up rings are also supplied for 55mm, 58mm, 62mm and 67mm fittings. Available in Canon, Nikon and Sony fit, all with full automatic TTL metering.

**£119.99**

**TTL Flash Cord Coiled** £24.99  
**TTL Flash Cord Straight** £29.99  
Available in Canon, Nikon, Sony, Olympus, Panasonic, Pentax and Samsung fit.

## FLASH DIFFUSERS

**Bounce Flash Diffuser**  
These popular, simple opaque plastic diffusers simply fit onto the front of your flash gun, creating a diffused bare bulb effect with even coverage. Huge range available for Canon, Nikon, Sony, Olympus, Pentax, Metz & Nissin. Below is just a sample of the range:

**Canon 270EX / 380EX / 420EX**  
**Canon 430EX / 430EXII / 550EX**  
**Canon 580EX / 580EXII**  
**Nikon SB600 / SB800 / SB900**  
**Nikon SB24 / SB25 / SB26 / SB28**  
**Sony: HVL-F42AM / HVL-F58AM, Metz: 48AF1 / 58AF1**  
**Nissin: Di466 / Di622 / Di866, Pentax: AF-540FGZ**

**Inverted Dome Pro Flash Diffuser Set**  
Comprising a clear vinyl body that simply slips onto the head of the flash gun, and an inverted frosted dome that clips onto the front. In addition to diffusing the flash directly hitting your subject, the inverted dome spreads light evenly through the sides of the clear vinyl body, lighting up the surrounding environment, thus producing a natural soft daylight effect. Especially useful for shooting interiors and portraits, and is a firm favourite with wedding photographers. Supplied with four domes, giving you a full range of natural, cool, or warm-up tones. Available in four sizes:

**Size 1:** 62-65 x 39-42mm Nikon SB600, SB800, etc.  
**Size 2:** 64-68 x 35-38mm Canon 420EX, 430EX, etc.  
**Size 3:** 68-72 x 46-49mm Nikon SB600, 28, 28, etc.  
**Size 4:** 73-77 x 46-49mm Canon 550EX, 580EX, etc.

**£29.99**

**FlashRight**  
ColorRight's new 'super diffuser' for hotshoe flashguns.

**£89.99**

**ColorRight PRO**  
The ultimate white balance filter! Available in two versions - Neutral and Portrait.

**£104.99**

## STUDIO ACCESSORIES

**Westcott Apollos and Halos**  
The convenience of an umbrella meets the control of a softbox. Built on an umbrella frame, they mount to any standard umbrella receptacle.

**Mini Apollo** £59.99  
**28" Apollo** £99.99  
**45" Halo** £104.99

**Westcott Umbrellas**  
Such a simple but effective idea - umbrellas with a telescopic shaft. Perfect for travel, they open to 43" diameter, but collapse down to just 14.5".

**43" Umbrella** Soft Silver £18.99  
**43" Umbrella** White £18.99  
**43" Umbrella** White/Black £21.99

**Westcott 28" Apollo Flash Kit** £64.99  
**Westcott Umbrella Flash Kit** £64.99  
**Westcott 5-in-1 Reflector Kit** £41.99

**Lastolite Ezbox Hotshoe**  
Studio quality softboxes for your hotshoe flashgun. Complete with hotshoe mounting bracket for attaching to lightstand. Comes in three sizes, 38x38cm, 60x60cm and 76x76cm. Available as kit with 4-section light stand, tilt head, extending handle, shoulder bag and carry case.

**22cm Ezbox Speedlite NEW** £44.99  
**38cm Ezbox Hotshoe** £84.99  
**38cm Ezbox Hotshoe Kit** £156.99  
**54cm Ezbox Hotshoe** £102.99  
**54cm Ezbox Hotshoe Kit** £174.99  
**76cm Ezbox Hotshoe** £119.99  
**76cm Ezbox Hotshoe Kit** £192.99

**Lastolite Flashgun TiltHeads**  
These ingenious Lastolite tiltheads provide a way of attaching your flashgun or flashgun, plus umbrella, to a lightstand.

**TiltHead For Single Flashgun** £16.99  
**TiltHead Umbrella Kit** £89.99

**Colour Balance and Exposure Control**  
Handy pop-up colour balance and exposure control grey/white cards.

**EzyBalance 30cm** £17.99  
**EzyBalance 50cm** £29.99

Full Lastolite range available.



# Lowering the Cost of Photography

Orders are shipped promptly by Royal Mail 1st class post, for which we charge just £1.79 per order. All prices include VAT, and a full VAT receipt is provided with every order. Payment accepted by credit/debit card, cheque or postal order. Orders accepted securely online, [www.premier-ink.co.uk](http://www.premier-ink.co.uk), over the telephone, 01926 339977, by post, or by visiting our shop: Premier Ink & Photographic, Longfield Road, Sydenham Ind Estate, Leamington Spa, CV31 1XB

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# Premier

Ink & Photographic

Winners of the Amateur Photographer 2011 GOLD "Good Service Award"

## CAMERA STRAPS

### «BLACKRAPID»

The world's fastest camera straps

Camera Straps	
RS-4 Classic	£49.99
RS-5 Cargo	£59.99
RS-7 Curve	£49.99
RS-W1 Womens	£49.99
RS-SPORT2	£59.99
RS-DR2 Double	£99.99
3-in-1 Straps & Bags	
SnapR-10 Small	£29.99
SnapR-20 Medium	£34.99
SnapR-35 Large	£39.99

RS-7 RS-W1 SnapR

### SUN SNIPER

Camera Straps	
ONE Sling Strap	£39.99
STEEL Sling Strap	£49.99
PRO Steel & Bear	£59.99
DPH Dual Harness	£119.99
TPH Triple Harness	£169.99

### OP TECH USA

The World's best-selling SLR straps

OP/Tech camera straps use quick release connectors, allowing the strap to be removed from the camera without unthreading the strap. Wrist straps, neck straps and sling straps!

Camera Straps		System Connectors	
Wrist Strap	£11.99	Adapt-Its (4)	£4.99
Classic Strap	£16.99	Extensions (2)	£6.99
Super Classic	£19.99	UniLoop (2)	£6.99
Pro 3/8 Strap	£17.99	ProLoop (2)	£9.99
Pro Loop Strap	£18.99	LensSupport (2)	£9.99
Utility Sling Strap	£29.99	Sling Adapter	£10.99

### SPIDER CAMERA HOLSTER

From hip to hand in a flash...

Spider Pro	
Pro Holster	£89.99
Pro Belt	£29.99
Pro Single Kit	£109.99
Pro Dual Kit	£189.99
Spider Black Widow	
Widow Holster	£39.99
Widow Belt	£19.99

## SHUTTER RELEASES

### Hahnel Giga T Pro Wireless Shutter Release & Interval Timer

The NEW Hahnel Giga T is a combined 100m wireless remote shutter release and timer remote control - as well as being able to be used as a short distance cable shutter release. Programmable features include a self-timer, interval timer, long exposure setting and exposure count. These settings can be used in any combination, making the possibilities virtually limitless. 2.4GHz frequency is ultra-reliable.

Channel selector for individual control of multiple cameras. Shutter release button with autofocus, single and continuous shooting, bulb mode and self-timer. Available for Canon, Nikon, Sony, Olympus, Pentax and Samsung.

**hahnel**  
RRP: £89.99  
SPECIAL OFFER - SAVE £20  
**£69.99**

### Hahnel Combi TF Wireless Shutter Release & Wireless Flash Trigger

Ultra high frequency 2.4GHz professional radio remote control, with a range of up to 100 metres! Autofocus, Bulb Function and Continuous Shooting functions. 4 digit code selector allows individual codes to be set to eliminate interference from other sources.

Each kit contains a wireless transmitter, a receiver with camera shoe and connectors to allow it to plug into your camera.

Also works as a wireless flash trigger, and with the addition of extra receivers, multiple flashguns can be fired simultaneously.

Available for Canon, Nikon, Sony, Olympus, Panasonic, Pentax and Samsung.

### Hahnel Cable Remote Shutter Release

An innovative cable remote control for digital SLRs, with interchangeable camera connectors and a 2 metre extension lead, giving the choice of shutter release from 0.8 or 2.8 metres.

Autofocus, Bulb Function and Continuous Shooting functions.

Available for Canon, Nikon, Sony, Olympus, Panasonic, Pentax and Samsung.

Excellent value for money - our best selling remote shutter release!

**hahnel**  
RRP: £29.99  
SPECIAL OFFER - SAVE £10  
**£19.99**

## TRIPODS, MONOPODS & HEADS

### Manfrotto

### HALF PRICE HEADS!

190XPROB Tripod + HALF PRICE 496RC2 **£142.48**

190XPROB Tripod + HALF PRICE 804RC2 **£144.98**

055XPROB Tripod + HALF PRICE 496RC2 **£157.48**

055XPROB Tripod + HALF PRICE 804RC2 **£159.98**



FREE Manfrotto Backpack with every 804RC2 tripod kit

### Manfrotto 324RC2

**FREE HEADS!**  
FREE Manfrotto 324RC2 Grip Head (RRP £121.99) with every Carbon Fibre Pro tripod!

### MANFROTTO PRO TRIPODS

190XPROB Tripod	055XPROB Tripod
Aluminium 3-section legs, aluminium canopy, Q90 horizontal tilting central column	Aluminium 3-section legs, aluminium canopy, Q90 horizontal tilting central column
Weight: 1.85kg Load: 5.0kg Folded: 57cm Height: 146cm	Weight: 2.40kg Load: 7.0kg Folded: 65cm Height: 178cm
<b>£114.99</b>	<b>£129.99</b>
190CXPRO3	055CXPRO3
Carbon Fibre 3-section legs, Q90 column	Carbon Fibre 3-section legs, Q90 column
Weight: 1.29kg Load: 5.0kg Folded: 58cm Height: 146cm	Weight: 1.65kg Load: 5.0kg Folded: 65cm Height: 175cm
<b>£229.99</b>	<b>£259.99</b>
190CXPRO4	055CXPRO4
Carbon Fibre 4-section legs, Q90 column	Carbon Fibre 4-section legs, Q90 column
Weight: 1.34kg Load: 5.0kg Folded: 50cm Height: 146cm	Weight: 1.70kg Load: 5.0kg Folded: 54cm Height: 170cm
<b>£239.99</b>	<b>£269.99</b>

### MANFROTTO PRO MONOPODS

MM294A3 Monopod	MM294A4 Monopod	695CX Monopod
Aluminium 3-section	Aluminium 4-section	Carbon Fibre 3-section
Weight: 0.50kg Load: 5.0kg Folded: 115cm Height: 151cm	Weight: 0.50kg Load: 5.0kg Folded: 115cm Height: 151cm	Weight: 0.60kg Load: 5.0kg Folded: 107cm Height: 160cm
<b>£29.99</b>	<b>£34.99</b>	<b>£143.99</b>
679B Monopod	680B Monopod	681B Monopod
Aluminium 3-section	Aluminium 4-section	Aluminium 3-section
Weight: 0.60kg Load: 10.0kg Folded: 64cm Height: 162cm	Weight: 0.83kg Load: 10.0kg Folded: 51cm Height: 154cm	Weight: 0.78kg Load: 12.0kg Folded: 67cm Height: 161cm
<b>£35.99</b>	<b>£47.99</b>	<b>£49.99</b>

### MANFROTTO PRO HEADS

492 Ball Head	234 Tilt Head	234RC Tilt Head
non quick-release 1/4" thread	Ideal for monopods	with RC2 quick release
Weight: 0.12kg Load: 2.0kg	Weight: 0.27kg Load: 2.5kg	Weight: 0.27kg Load: 2.5kg
<b>£31.99</b>	<b>£14.99</b>	<b>£26.99</b>
494 RC2 Ball Head	496 RC2 Ball Head	498 RC2 Ball Head
with RC2 quick release	with RC2 quick release	with RC2 quick release
Weight: 0.32kg Load: 4.0kg	Weight: 0.48kg Load: 6.0kg	Weight: 0.67kg Load: 8.0kg
<b>£46.99</b>	<b>£54.99</b>	<b>£84.99</b>
324RC2 Grip Action Ball Head	NEW MH054-Q2 Magnesium Ball Head	468MG RC2 Hydrostatic Ball Head
with RC2 q/r	with RC2 q/r	magnesium, with RC2 q/r
Weight: 0.4kg Load: 3.5kg	Weight: 0.6kg Load: 10.0kg	Weight: 0.65kg Load: 10.0kg
<b>£99.99</b>	<b>£149.99</b>	<b>£199.99</b>
804 RC2 Pan / Tilt	808 RC4 Pan / Tilt	410 Geared Head
with RC2 quick release	with RC4 quick release	with RC4 quick release
Weight: 0.79kg Load: 4.0kg	Weight: 1.42kg Load: 8.0kg	Weight: 1.22kg Load: 5.0kg
<b>£59.99</b>	<b>£104.99</b>	<b>£149.99</b>
056 3D Head	460MG 3D Head	This is just a small selection of the MANFROTTO range now available to try in our showroom in Leamington Spa
non quick-release 1/4" thread	magnesium, with RC2 quick release	
Weight: 0.50kg Load: 3.0kg	Weight: 0.43kg Load: 3.0kg	
<b>£29.99</b>	<b>£69.99</b>	

### TrekTech

**TrekPod GO PRO**  
The most compact TrekPod, collapsing down to just 58cm, yet still extending to 145cm, and weighing just 765g. Supplied with travel case, and a MagMount PRO

T-Pod	£19.99
TrekPod II	£69.99
TrekPod XL	£219.99
MagMount STAR	£29.99
MagMount PRO	£59.99
MagAdapter STAR	£9.99

### gorillapod

**Gorillapod Original (GP1)**  
The original gorillapod, designed for compact cameras, available in grey, yellow, green, blue, red and pink. Weighs just 40g, and suitable for most compact cameras.

Gorillapod Spare Plates	£5.99
Gorillapod SLR	£29.99
Gorillapod SLR-Zoom	£34.99
Gorillapod FOCUS	£92.99
Gorillapod Ball Head	£39.99

### VANGUARD

### HALF PRICE HEADS!

AltaPRO 263AT Tripod + HALF PRICE SBH100 **£149.98**

AltaPRO 263AT Tripod + HALF PRICE GH100 **£164.98**

AltaPRO 283CT Tripod + HALF PRICE SBH100 **£279.98**

AltaPRO 283CT Tripod + HALF PRICE GH100 **£294.98**



### Vanguard Alta+ 263AP

**£50 OFF RRP!**  
Alta+ 263AP Tripod including PH32 Three Way Head **£99.99**

### VANGUARD PRO TRIPODS

AltaPRO 263AT Tripod	AltaPRO 264AT Tripod
Aluminium 3-section legs, magnesium canopy, MACC Multi-Angle-Central-Column	Aluminium 4-section legs, magnesium canopy, MACC Multi-Angle-Central-Column
Weight: 2.00kg Load: 7.0kg Folded: 63cm Height: 165cm	Weight: 2.10kg Load: 8.0kg Folded: 64cm Height: 155cm
<b>£119.99</b>	<b>£129.99</b>
PRO 253CT	PRO 254CT
Carbon Fibre 3-section legs, MACC column	Carbon Fibre 4-section legs, MACC column
Weight: 1.66kg Load: 7.0kg Folded: 63cm Height: 165cm	Weight: 1.57kg Load: 7.0kg Folded: 63cm Height: 155cm
<b>£224.99</b>	<b>£244.99</b>
PRO 283CT	PRO 284CT
Carbon Fibre 3-section legs, MACC column	Carbon Fibre 4-section legs, MACC column
Weight: 1.70kg Load: 8.0kg Folded: 64cm Height: 170cm	Weight: 1.73kg Load: 8.0kg Folded: 63cm Height: 160cm
<b>£249.99</b>	<b>£269.99</b>

### VANGUARD PRO MONOPODS

AP284 Monopod	AP324 Monopod	CP284 Monopod
Aluminium 4-section legs	Aluminium 4-section legs	Carbon Fibre 4-section legs
Weight: 0.57kg Load: 8.0kg Folded: 51.5cm Height: 158cm	Weight: 0.69kg Load: 10.0kg Folded: 53.5cm Height: 167cm	Weight: 0.46kg Load: 8.0kg Folded: 51.5cm Height: 158cm
<b>£39.99</b>	<b>£46.99</b>	<b>£99.99</b>

### VANGUARD PRO HEADS

SBH30 Ball Head	SBH50 Ball Head	SBH100 Ball Head
Lightweight magnesium alloy, single adjuster knob, 2 spirit levels, quick release plate	Lightweight magnesium alloy, single adjuster knob, 2 spirit levels, quick release plate	Lightweight magnesium alloy, single adjuster knob, 2 spirit levels, quick release plate
Weight: 0.22kg Load: 5.0kg	Weight: 0.25kg Load: 6.0kg	Weight: 0.39kg Load: 10.0kg
<b>£39.99</b>	<b>£49.99</b>	<b>£59.99</b>
PH22 Pan / Tilt	PH32 Pan / Tilt	GH100 Pistol Grip
3-way fluid head, magnesium, spirit level, quick release	3-way fluid head, magnesium, spirit level, quick release	New for 2011, award-winning pistol grip ball head.
Weight: 0.34kg Load: 3.0kg	Weight: 0.42kg Load: 5.0kg	Weight: 0.75kg Load: 6.0kg
<b>£39.99</b>	<b>£69.99</b>	<b>£89.99</b>

This is just a small selection of the VANGUARD range now available for demonstration in our showroom in Leamington Spa

### KOOD

A284 Tripod
Aluminium 4-section
Weight: 2.17kg Load: 8.0kg Folded: 56cm Height: 154cm
<b>£73.99</b>
C2504 Monopod
Carbon Fibre 4-section
Weight: 0.59kg Load: 4.0kg Folded: 47cm Height: 153cm
<b>£59.99</b>
C2804 Monopod
Carbon Fibre 4-section
Weight: 0.59kg Load: 4.0kg Folded: 47cm Height: 153cm
<b>£74.99</b>

BH02 Ball Head	BH08 Ball Head
Quick release plate, spirit level, 360 degree rotation, dual control knobs	Quick release plate, spirit level, 360 degree rotation, dual control knobs
Weight: 0.42kg Load: 12.0kg	Weight: 0.42kg Load: 12.0kg
<b>£22.99</b>	<b>£29.99</b>
BH05 Ball Head	BH25 Ball Head
Quick release plate, spirit level, 360 degree rotation, triple control knobs	Quick release plate, spirit level, 360 degree rotation, triple control knobs
Weight: 0.4kg Load: 8.0kg	Weight: 0.4kg Load: 8.0kg
<b>£31.99</b>	<b>£45.99</b>

### hahnel

Triad 30 Lite	Triad 40 Lite	Triad 60 Lite
4 section magnesium alloy tripod, legs extendable at 3 different angles, reversible centre column, built in spirit level. Supplied with BH30 alloy ball head, and carrying case.	4 section magnesium alloy tripod, legs extendable at 3 different angles, reversible centre column, built in spirit level. Supplied with BH40 alloy ball head, and carrying case.	4 section magnesium alloy tripod, legs extendable at 3 different angles, reversible centre column, built in spirit level. Supplied with BH60 alloy ball head, and carrying case.
Weight: 1.20kg Max Load: 4.0kg Folded: 56cm Max Height: 142cm	Weight: 1.58kg Max Load: 5.0kg Folded: 60cm Max Height: 153cm	Weight: 1.90kg Max Load: 5.0kg Folded: 61cm Max Height: 162cm
<b>£39.99</b>	<b>£49.99</b>	<b>£59.99</b>
BH30 Ball Head	BH40 Ball Head	BH60 Ball Head
Quick release plate, spirit level, 360 degree rotation, dual control knobs	Quick release plate, spirit level, 360 degree rotation, dual control knobs	Quick release plate, spirit level, 360 degree rotation, dual control knobs
Weight: 0.4kg Load: 8.0kg	Weight: 0.4kg Load: 8.0kg	Weight: 0.4kg Load: 8.0kg
<b>£24.99</b>	<b>£29.99</b>	<b>£39.99</b>

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E&OE. Prices may be subject to change, but hopefully not!





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**HALF  
PRICE  
HEAD**

**496RC2**  
BALL HEAD



**190XPROB**  
ALUMINIUM TRIPOD



**HALF  
PRICE  
HEAD**

**496RC2**  
BALL HEAD



**055XPROB**  
ALUMINIUM TRIPOD

190XPROB: £114.99  
496RC2: ~~£54.99~~ £27.49

**Deal Price:**  
**£142.48**

055XPROB: £129.99  
496RC2: ~~£54.99~~ £27.49

**Deal Price:**  
**£157.48**

## ...and Free Bags...



**804RC2**  
THREE WAY  
HEAD

**HALF  
PRICE  
HEAD**

**AGILE**  
SLING BAG



**190XPROB**  
ALUMINIUM TRIPOD



**804RC2**  
THREE WAY  
HEAD

**HALF  
PRICE  
HEAD**

**VELOCE**  
BACKPACK



**055XPROB**  
ALUMINIUM TRIPOD

190XPROB: £114.99  
804RC2: ~~£59.99~~ £29.99  
Agile I: ~~£59.99~~ FREE\*

**Deal Price:**  
**£144.98**

055XPROB: £129.99  
804RC2: ~~£59.99~~ £29.99  
Veloce V: ~~£89.99~~ FREE\*

**Deal Price**  
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**FREE  
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**324RC2**  
GRIP HEAD

**FREE\* 324RC2 with Manfrotto  
Carbon Fibre PRO tripods:**

190CXPRO3: £229.99  
190CXPRO4: £239.99  
055CXPRO3: £259.99  
055CXPRO4: £269.99

\* FREE Manfrotto Bags and Heads  
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# PocketWizard

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## Mini TT1 & Flex TT5

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Available  
for Canon or  
Nikon

The smallest PocketWizard radios ever, the Mini TT1 and Flex TT5 are part of a new generation of PocketWizard radios, providing TTL and power control capabilities with speedlights and select studio lights. Your creativity also extends far beyond X-Sync speeds with HyperSync and FP Sync capabilities.

The Mini TT1 Transmitter locks onto the camera's hot shoe, supporting an on-camera flash with its own hot shoe while working with remote PocketWizard units. Remotes can be one or more PocketWizard Flex TT5 Transceivers connected to TTL flashes or any PocketWizard Receiver for triggering flash or remote cameras.



**ONLY  
£169**

Easy to use; just slide in place and begin to shoot. The new PocketWizard ControlTL System interprets the complex TTL data being sent through the camera's hot shoe and digitally transmits it in a reliable radio signal. Change the exposure compensation dial on the camera, and those commands pass seamlessly through the system to your remote flash. Adjust your aperture or ISO and the system automatically corrects for those changes.

**DEAL 1  
£299**

### Starter Bundle



1 x  
Mini TT1



1 x  
Flex TT5

**DEAL 2  
£469**

### Professional Bundle



1 x  
Mini TT1



2 x  
Flex TT5

**DEAL 3  
£329**

### Expansion Bundle



2 x  
Flex TT5

## AC3 Zone Controller

**ONLY  
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Simply add the AC3 ZoneController to your on-camera Mini TT1 Transmitter or Flex TT5 Transceiver and you instantly have three zones of flash control. Whether working in TTL or Manual mode, you now have control over all your flashes directly from the camera's position.



**10%  
OFF**



## PocketWizard Cables

10% off the entire range of PocketWizard flash cables, camera cables and motor drive cables. Limited time only.

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A superb kit, comprising an 8" Westcott lightstand, 43" Westcott collapsible umbrella, and one of the new Westcott adjustable shoe mounts. All you need for attaching your flashgun and umbrella to the lightstand, and available at Premier Ink & Photographic for 20% below the RRP of £81!

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Camera glides from bag to shooting position.



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battery...*



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*...with every  
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*Hahnel Pro battery grip*

The new Hahnel Pro battery grips for the Canon 7D, 5D MkII and 60D are designed to blend perfectly with the camera body, providing a professional and economical way of improving camera handling and doubling your power source.

The grips can take either 1 or 2 LP-E6 batteries, or alternatively use 6 AA batteries. Intelligent power management regulates the power output to the camera for maximum efficiency and battery life.

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Elm Court Community Centre,  
Mutton Lane, EN6 3BP.  
M25 J.24, close to Potters Bar Station.  
Adm early bird 9.15am £4,  
after 10.30am £2. Refreshments.  
**Details Peter Levinson**  
Tel: 020 8205 1518

**SOUTH LONDON CAMERA** fair.  
Sunday 22nd January 2012. Buy, sell or  
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Technology College, Sevenoaks Way,  
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Patrick Archer on tel - 01322 224 964  
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150mm f/3.5 MC C	£120
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ETR SPEED GRIP C	£25
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SIGMA 10-20mm f/4-5.6 DC EX W	£322
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SIGMA 18-125mm f/ OS W	£175
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TAMRON 11-18mm f/4.5-5.6 LD W	£300
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TAMRON 55-200mm f/4-5.6 C	£40 £60
TOKINA 18-270mm f/4 IF DX W	£400
TOKINA 35mm f/2.8 DX W	£390 £290
TOKINA 80-400mm f/4.5-5.6 C	£445 £400
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CANON 580EX W	£225
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A12 MAG (CHROME) C	£90
A12 MAG C	£90
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C220F/80mm f/2.8 C	£200
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C380/135mm C	£300
37mm FISHEYE f/4.5 RZ W	£400
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135mm C f/4.5 C	£125
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D60 & 18-55mm C	£234
D60 BODY C	£197
D40 & 18-55mm W	£235
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D7000 BODY C	£750
D3000 BODY C	£225
D3000 & 18-55mm C	£330
D3000 & 18-55mm VR C	£352
D3100 & 18-55mm VR W	£400
FT2 BLACK BODY W	£95
F2s PHOTOMIC BLACK W	£700 £600
F3 AS BODY C	£880 £850
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F5 50TH ANNIVERSARY BODY W	£1200
FM3A BODY W	£600 £500
FM3A & 50mm f/1.4 AIS W	£700
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FE2 BODY W	£90
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F60 & 35-80mm C	£54
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18-105mm AF-S VR W	£154
18-105mm f/3.5-5.6 VR C	£150
18-135mm f/3.5-5.6 W	£125
18-200mm f/3.5-5.6 VR MKI W	£495 £440

24-85mm f/3.5-4.5G C	£225
24-120mm f/3.5-5.6 VR W	£300 £200
24-120mm f/3.5-5.6 VR C	£300 £200
24mm f/2.8 AIS W	£180
28mm f/2.8 D W	£165
28mm f/3.5 NON AI C	£70
28-105mm f/3.5-4.5 W	£200 £150
28-200mm f/3.5-5.6 AF-D W	£225 £190
35mm f/2 AIS C	£225 £200
35-135mm f/3.5-5.6 AF C	£440 £125
43-86mm f/3.5 C	£60
43-86mm NON AI W	£56
50mm f/1.8 AF-D W	£121
50mm f/1.8 AF-S C	£99
55-200mm f/4.5-5.6 W	£82
55-200mm f/4.5-5.6 VR C	£155
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70-300mm f/4.5-5.6 ED W	£140
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SIGMA 18-200mm f/4.5-5.6 C	£95
SIGMA 70-300mm f/4.5-6.3 C	£65
120-400mm f/4.5-5.6 DG OS W	£649
SIGMA 150mm f/2.8 W	£400
150-500mm f/5-6.3 APO OS C	£757
TAMRON 18-250mm f/3.5-6.3 DI C	£289
TAMRON 28-300mm f/3.8-6.3 DI C	£178
TAMRON 55-300mm f/4.5-5.6 W	£95
TAMRON 70-300mm f/4.5-5.6 W	£95
TELEPLUS 1.5x Tele-Converter C	£80
TOPIKA 12-24mm f/4 AT-X C	£350
TOKINA 28-80mm f/2.8 ATX PRO C	£397
TC-17E II C	£250

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<b>£900.00</b>	SAVE £50

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MB-D10 GRIP C	£200
MB-D200 GRIP W	£99
MD-200 GRIP C	£80
MD11 DRIVE W	£51
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MC25 2 PIN ADAP C	£40
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75-150mm f/4 ZUIKO C	£40
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## PANASONIC

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LUMIX TZ7 C	£102
LUMIX FZ18 C	£140
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135mm f/3.5 M42 C	£58
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200mm f/4 M42 C	£35
RICOH 50mm f/2 PK FIT W	£16
SPOTMETER V C	£420 £90
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MINOLTA DYNAX 5D & 18-70mm W	£183
MINOLTA 300Si & 35-80mm W	£48
MINOLTA 404Si & 35-80mm C	£42

## SIGMA

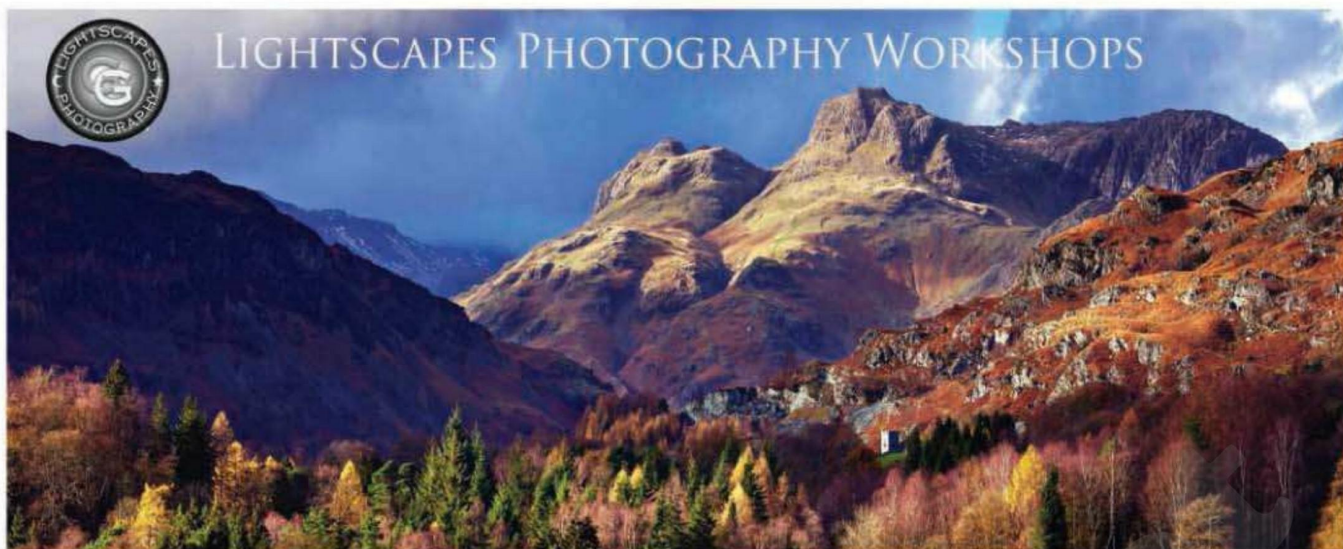
24mm f/1.8	SONY FIT WELLS ST.
<b>£220.00</b>	SAVE £70

MINOLTA 500Si & 28-80mm W	£49
MINOLTA 600Si BODY W	£80
MINOLTA 600Si BODY C	£81
MINOLTA 600Si & 28-80mm W	£120
MINOLTA X700 & 50/1.7 W	£102
18-55mm f/3.5-4.5 W	£50
18-70mm f/3.5-5.6 W	£110
30mm f/2.8 SAM W	£125
MINOLTA 28mm f/2.8 AF C	£75
MINOLTA 35mm f/1.4 AF C	£600
MINOLTA 50mm f/1.7 AF C	£120
MINOLTA 75-300mm f/4.5-5.6 C	£85
MINOLTA 75-300mm f/4.5-5.6 W	£80
MINOLTA 80-200mm f/4.5-5.6 XI W	£81
MINOLTA 100-300mm f/4.5-5.6 XI W	£70





## LIGHTSCAPES PHOTOGRAPHY WORKSHOPS



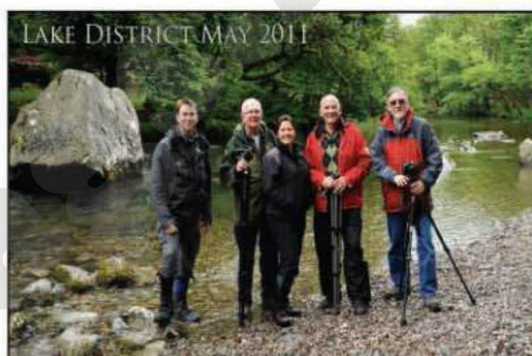
'Just to say thanks for a great workshop. Good accomodation and food, good like minded company, great locations and tuition tailored to each of our needs. It couldn't be better.' Kevin Haigh - Isle of Skye March 2011

**All 2011 Workshops Sold Out - See below and Website for 2012 dates**

"I thoroughly enjoyed the workshop weekend with Gary in the Lakes. I have learned new technical skills but more importantly how to look beyond the obvious to get a different perspective on a shot and how to make the most of the conditions.

Gary's passion for landscape photography is infectious."

Claire Marshall Lake District September 2011



"Gary - thanks for a superb weekend with excellent support and tuition - thoroughly enjoyed and extremely good value"  
Kevin Gibbin Lake District 2011

**All Workshops include a Free Post Production Day using Photoshop and Lightroom**  
Learn how to make your images brighter for printing.  
Understand Colour Profiles.  
Print out your favourite image from the Workshop



### All Workshop Places taken for 2011

#### January 2012

- 17th - 21st - Glencoe/Isle of Skye Winter
- 4 Nights Dinner Bed and Breakfast £695.00 (2 Places)
- 27th - 29th - Lake District
- 2 nights Dinner Bed and Breakfast £425.00 (1 Place)

#### February 2012

- 3rd 5th Shropshire Winter Workshop
- 2 nights Dinner, Bed and Breakfast £395.00 (2 places)
- 24th - 26th - Lake District
- 2 nights Dinner Bed and Breakfast £425.00 (1 Place)
- 28th - 3rd Isle of Skye Winter /Glencoe
- 4 Nights Dinner Bed and Breakfast £745.00 (1 Place)
- Includes Digital Capture to Print in Hotel

#### March 2012

- 16th - 18th - Lake District
- 2 nights Dinner Bed and Breakfast £425.00 (2 Places)
- 28th - 3rd Isle of Skye/Glencoe
- 4 Nights Dinner Bed and Breakfast £745.00 (2 Places)
- Includes Digital Capture to Print in Hotel
- 27th - 30th Northumberland Workshop
- 3 nights dinner bed and breakfast £575.00 (2 Places)

#### June 2012

- 22nd June-2nd July - iceland (3 places left)
- Please see website for details or email me.

**www.garygroucutt.com**

**info@garygroucutt.com**

**Mobile: 07779 122034**





# A COLLECTOR'S LIFE FOR ME

When Tony Kemplen resolved to use a different film camera each week, he discovered a treasure trove of lost gems

**MY STEADILY** growing camera collection is eclectic rather than systematic. Far from being someone who needs to have every possible version and model of a particular brand, I go for the quirky or unusual. Recent acquisitions have included a talking Polaroid camera and one that automatically includes images of the boy band NSync in every frame! Why anyone would want such a thing is beyond me.

The Minolta Disc 7 camera certainly falls into the quirky and unusual category. This model was another car-boot sale find. It is an example of the slim compact cameras that were made to take the now defunct Kodak Disc films, first introduced in the 1980s. There is no denying that these cameras were small. The drawback was the tiny negatives. At 8x11mm they were smaller than the 110 format. In fact, they are pretty much the same size as those found in the Minox spy cameras.

When the disc format was discontinued, there was no way the cameras could continue to be used. Being, on the whole, very basic and cheap, they were chucked out without much ceremony by their owners. Around the turn of the century many charity shops would have had a box full of these models hidden away in a dark corner.

An unusual feature of the Minolta is a built-in retractable wand, which allows you to hold the camera at arm's length so you can take a self-portrait using an electrical link to trigger the shutter from the wand's handgrip. A convex mirror on the front of the camera allows you to compose your shot posing in front of whatever tourist attraction you want. The mirror is carefully positioned to avoid the appearance of the Eiffel Tower sticking out of your head, for example.

If you want to use a disc camera, the main challenge is to find some film. Unlike some of the obsolete roll

film formats where it is possible to roll your own replacement, the disc format consists of a plastic daisy-wheel affair stamped out of extra-thick film stock that would be pretty well impossible to make yourself.

My camera had lain idly in a box for a number of years until one day a glimmer of hope appeared. I spotted an old



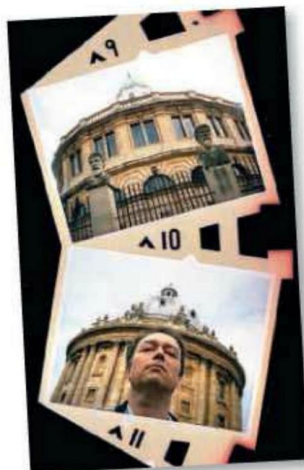
Kodak disc camera complete with two unopened films on eBay. The films were 25 years past their use-by date, but I was reasonably confident that there would be some life left in them. I decided to give the discs one last spin.

I took a mixture of photos, some with the self-portrait function, some without. Posing for souvenir photos goes right back to the beginning of photography, but this is the first time I've come across a camera that has a posing mirror built into it. Nowadays, even some cheap digital cameras have little LCD screens on the front to aid composition.

During my experimentations with the camera I made some useful discoveries about technique. For example, when standing in front of the Radcliffe Camera (that's a university library building in Oxford, not a device for photographing female marathon runners), in order to include the top of the dome I had to hold the Minolta camera fairly low with the result that it was pointing up my nose! The next time I use the Minolta Disc 7, I'll try to find scenes where the interest is below and behind me so the camera will have a slightly higher and more flattering viewpoint.

Although there are still some labs in operation that will process disc film, I opted to develop mine at home using a Tetenal C-41 colour negative kit. I placed the disc in an empty developing tank and made sure I agitated it well so the film didn't stick to the bottom of the tank. All went according to plan and it was then a matter of scanning the disc on a flatbed scanner and using Photoshop Elements to tweak the images.

Looking through the photos, I noticed that there was a reflected self-portrait sandwiched between two photos of my shadow. Although great fun to use, I don't see this camera becoming my regular shooter. The image quality is too poor and playing with a mirror on a stick made me feel like an oversized budge! **AP**



To see more photographs taken with the Minolta 7, visit [www.flickr.com/photos/tony\\_kemplen/sets/72157626548449050](http://www.flickr.com/photos/tony_kemplen/sets/72157626548449050). To read more about Tony's 52 cameras project, visit <http://52cameras.blogspot.com>

## Editorial

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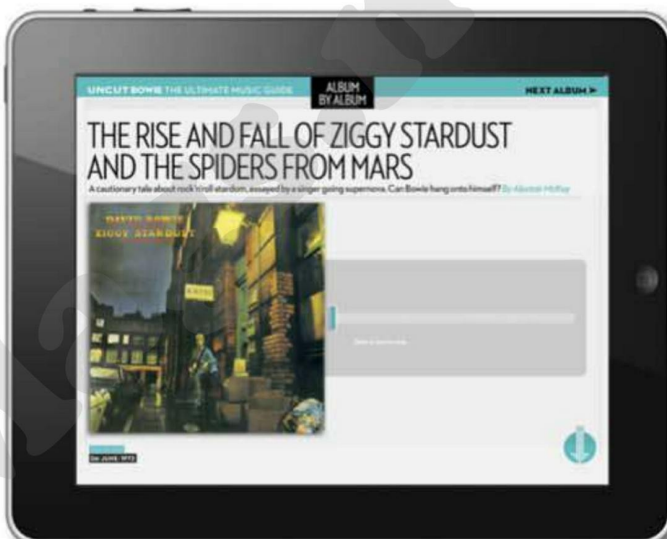
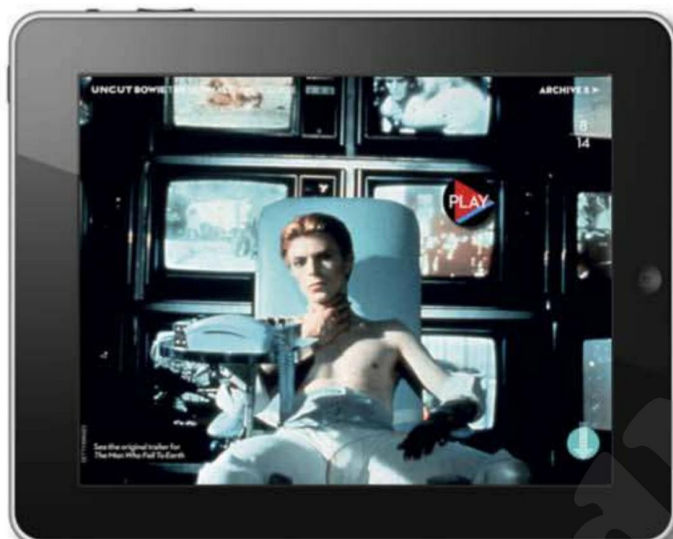
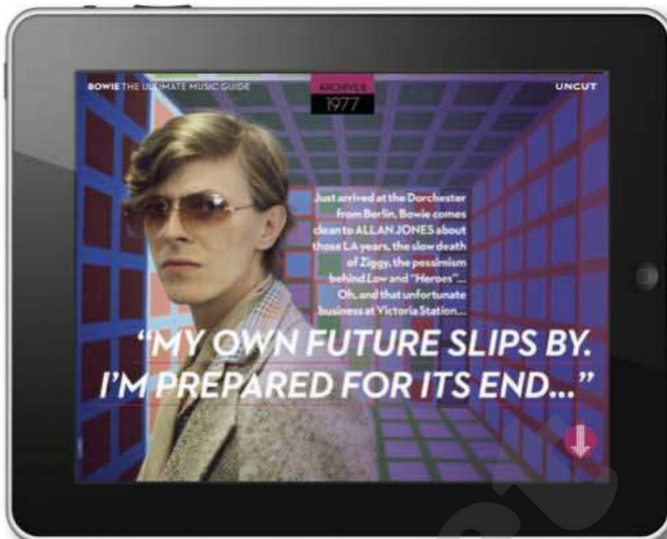
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